TOSHIBA
Leading Innovation

MULTIFUNCTIONAL DIGITAL SYSTEMS

Software Installation Guide

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Preface

Thank you for purchasing TOSHIBA Multifunctional Digital Systems or Multifunctional Digital Color Systems. This manual explains the instructions for installing client software. Read this manual before using your Multifunctional Digital Systems or Multifunctional Digital Color Systems. Keep this manual within easy reach, and use it to configure an environment that makes best use of the e-STUDIO's functions.

■ How to read this manual

❑ Symbols in this manual

In this manual, some important items are described with the symbols shown below. Be sure to read these items before using this equipment.

⚠ WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death, serious injury, or serious damage, or fire in the equipment or surrounding objects.
⚠ CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, partial damage to the equipment or surrounding objects, or loss of data.
Note	Indicates information to which you should pay attention when operating the equipment.

Other than the above, this manual also describes information that may be useful for the operation of this equipment with the following signage:

Tip	Describes handy information that is useful to know when operating the equipment.
🕮	Pages describing items related to what you are currently doing. See these pages as required.

❑ Model and series names in this manual

In this manual, each model name is replaced with the series name as shown below.

Model name	Series name in this manual
e-STUDIO5540C/6540C/6550C	e-STUDIO6550C Series
e-STUDIO2040C/2540C/3040C/3540C/4540C	e-STUDIO4540C Series

❑ Screens and Operation Procedures

- In this manual, the screens and the operation procedures in Windows are described for Windows 7 unless otherwise stated.
  The details on the screens may differ depending on how the equipment is used, such as the status of the installed options, the OS version and the applications.
- If you use Windows Server 2008 R2, refer to the operation procedure for Windows 7, though the screens or the menu names, etc. may differ.
- The illustration screens used in this manual are for paper in the A/B format. If you use paper in the LT format, the display or the order of buttons in the illustrations may differ from that of your equipment.

❑ Trademarks

- The official name of Windows XP is Microsoft Windows XP Operating System.
- The official name of Windows Vista is Microsoft Windows Vista Operating System.
- The official name of Windows 7 is Microsoft Windows 7 Operating System.
- The official name of Windows Server 2003 is Microsoft Windows Server 2003 Operating System.
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1

OVERVIEW

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About the Client CD-ROM

■ For Windows

The contents of the Client Utilities CD-ROM:

Client software installer

[Client Utilities CD-ROM]:\e-STUDIO\Setup.exe
This is the setup program to install the printer drivers on your computer.

Universal Printer drivers

- [Client Utilities CD-ROM]:\Client\Drivers\UNI\32bit\
  This includes the setup files to install the Universal Printer driver on the Windows XP / Windows Vista / Windows 7 / Windows Server 2003 / Windows Server 2008 32-bit edition for each language version by Add Printer Wizard or Plug and Play.
- [Client Utilities CD-ROM]:\Client\Drivers\UNI\64bit\
  This includes the setup files to install the Universal Printer driver on the Windows XP / Windows Vista / Windows 7 / Windows Server 2003 / Windows Server 2008 64-bit edition for each language version by Add Printer Wizard or Plug and Play.

Tip

The Universal Printer driver allows you to use both PCL and PS3 by shifting PDL (Page Description Language), so that you can use it depending on the purposes of the applications in various usages. It also allows you to print documents on other equipment of the e-STUDIO series. For details, refer to the ***Printing Guide***.

PS3 printer drivers (PostScript)

- [Client Utilities CD-ROM]:\Client\Drivers\PS\32bit\
  This includes the setup files to install the PS3 printer driver on the Windows XP / Windows Vista / Windows 7 / Windows Server 2003 / Windows Server 2008 32-bit edition for each language version by Add Printer Wizard or Plug and Play.
- [Client Utilities CD-ROM]:\Client\Drivers\PS\64bit\
  This includes the setup files to install the PS3 printer driver on the Windows XP / Windows Vista / Windows 7 / Windows Server 2003 / Windows Server 2008 64-bit edition for each language version by Add Printer Wizard or Plug and Play.

XPS printer drivers

- [Client Utilities CD-ROM]:\Client\Drivers\XPS\32bit\
  This includes the setup files to install the XPS printer driver on the Windows XP / Windows Vista / Windows 7 / Windows Server 2003 32-bit edition for each language version by Add Printer Wizard or Plug and Play.
- [Client Utilities CD-ROM]:\Client\Drivers\XPS\64bit\
  This includes the setup files to install the XPS printer driver on the Windows XP / Windows Vista / Windows 7 / Windows Server 2003 64-bit edition for each language version by Add Printer Wizard or Plug and Play.

Tip

The XPS printer driver can be installed on Windows Vista / Windows 7 computers, or those of Windows XP SP2, Windows Server 2003 SP1 or later versions with XPS Essentials Pack installed.

Plug-ins

[Client Utilities CD-ROM]:\Client\Drivers\PLUGINS\
This includes the setup files to install the plug-ins separately.

Windows PPD file

[Client Utilities CD-ROM]:\Client\Drivers\WinPPD\
This includes a printer description file for popular Windows applications.

N/W-Fax drivers

- [Client Utilities CD-ROM]:\Client\FAX\32bit\
  This includes the setup files to install the N/W-Fax driver on the Windows XP / Windows Vista / Windows 7 / Windows Server 2003 / Windows Server 2008 32-bit edition for each language version by Add Printer Wizard or Plug and Play.
- [Client Utilities CD-ROM]:\Client\FAX\64bit\
  This includes the setup files to install the N/W-Fax driver on the Windows XP / Windows Vista / Windows 7 / Windows Server 2003 / Windows Server 2008 64-bit edition for each language version by Add Printer Wizard or Plug and Play.

AddressBook Viewer

- [Client Utilities CD-ROM]:\Client\ADRBK\32bit\
  This includes the setup files to install the AddressBook Viewer on the Windows XP / Windows Vista / Windows 7 / Windows Server 2003 / Windows Server 2008 32-bit edition.
- [Client Utilities CD-ROM]:\Client\ADRBK\64bit\
  This includes the setup files to install the AddressBook Viewer on the Windows XP / Windows Vista / Windows 7 / Windows Server 2003 / Windows Server 2008 64-bit edition.

Remote Scan drivers

[Client Utilities CD-ROM]:\Client\RS\
This includes the setup files to install the Remote Scan driver.

TWAIN drivers

[Client Utilities CD-ROM]:\Client\TWAIN\
This includes the setup files to install the TWAIN driver.

File Downloader

[Client Utilities CD-ROM]:\Client\FD\
This includes the setup files to install the File Downloader.

WIA drivers

[Client Utilities CD-ROM]:\Client\WIA
This includes the setup files to install the WIA driver on the Windows XP / Windows Vista / Windows 7 / Windows Server 2003 / Windows Server 2008.

■ For Macintosh

The contents of the Client Utilities CD-ROM:

Macintosh PPD files

- [Client Utilities CD-ROM]:MacPPD:OSX:10_2-10_3
  This includes the PPD file to enable printing from Macintosh on the Mac OS X 10.2.4 to Mac OS X 10.3.x.
- [Client Utilities CD-ROM]:MacPPD:OSX:10_4-
  This includes the PPD file to enable printing from Macintosh on the Mac OS X 10.4 or later. In addition, this includes plug-ins used for Macintosh on the Mac OS X 10.4 or later.

■ For UNIX/Linux

The contents of the Client Utilities CD-ROM:

Solaris filter

[Client Utilities CD-ROM]/Admin/SolarisFilter/Usa/
This includes the tar file for Solaris v2.6/2.7/7.8/8/9/10.

HP-UX filter

[Client Utilities CD-ROM]/Admin/HP-UXFilter/Usa/
This includes the tar file for HP-UX ver.10.20/11.x and HP-UX64 ver.11.31.

AIX filter

[Client Utilities CD-ROM]/Admin/AIXFilter/Usa/
This includes the tar file for AIX 4.3.3.

Linux filter

[Client Utilities CD-ROM]/Admin/LinuxFilter/Usa/
This includes the tar file for Red Hat 7.x/8.x/9.x, Red Hat Enterprise WS2, SuSE Linux 7.x/8.x/9.x, Mandrake Linux 7.x/8.x/9.x and Turbolinux 8/10.

SCO UNIX filter

[Client Utilities CD-ROM]/Admin/OpenUnixFilter/Usa/
This includes the tar file for SCO UnixWare 7 and SCO Open UNIX 8.

CUPS PPD file

[Client Utilities CD-ROM]/Admin/CUPS/Usa/
This includes the PPD file to enable printing from CUPS.

Contents of Installer

The following software can be installed by the Installer in the Client Utilities CD-ROM.

Printer drivers (Printing function)

Printer drivers are software components that enable application programs to interact with the TOSHIBA MFP. The TOSHIBA MFP comes with three printer drivers, Universal Printer (PCL6, PostScript), PS3 (PostScript) and XPS printer drivers. These printer drivers offer document print, layout and assembly functions that are not available with many applications.

Tip

The XPS printer driver can be installed on Windows Vista / Windows 7 computers, or those of Windows XP SP2, Windows Server 2003 SP1 or later versions with XPS Essentials Pack installed.

TWAIN driver (Scanning function)

This software component enables you to import e-Filing documents into TWAIN-compliant applications.

File Downloader

This software component enables you to import e-Filing documents into your hard disk.

Remote Scan driver (Scanning function)

This software allows you to perform scanning the originals set in the equipment remotely from a client computer and acquire the image into the TWAIN-compliant application.

WIA driver (Scanning function)

This software allows you to perform scanning the originals set in the equipment remotely from a client computer and acquire the image into the WIA-compliant application.

N/W-Fax driver (Printing function)

The N/W-Fax driver enables you to set up send lists and send electronic documents from your client computer to one or more destinations. You print to the fax much the same way you would choose to print to a designated printer that makes using the N/W-Fax driver quick and simple. You can select the fax properties.

AddressBook Viewer

With the AddressBook Viewer you can easily add or modify fax recipient names, fax numbers, and Internet Fax address (E-mail address) to the address book. This utility allows you to manage recipients of the fax, select and display fax recipients from the address book, as well as recipient fax numbers and other contact information.

Precautions for Using Firewall Software

When firewall software is used on Windows computers, installation may not be performed since network communication between this equipment and the computers is blocked by firewall software.
Check if firewall software is used before installation, and follow the directions of your network administrator if it is used.

Client software required for network communications and the execution files are given as follows. Use this information for the exception setting of the firewall software.

Individual installer: setup.exe
Software Installer: Setup.exe
Printer driver, N/W-FAX driver: printui.exe
File Downloader: ESFileDL.exe
AddressBook Viewer: ABVExe.exe (for 32-bit edition), ABVExe6.exe (for 64-bit edition)
Backup/Restore Utility: ESeFBKRT.exe

Notes

- For a TWAIN driver, Remote Scan driver and WIA driver, the execution files of the corresponding application software need to be set as exceptions.
- When Individual installer or Software Installer is set as an exception, release the exception setting after installation.

Downloading Software From TopAccess

If the system administrator has uploaded the software to the TOSHIBA MFP, you can download the software from TopAccess to install them on your computer.
The following software can be downloaded from TopAccess.

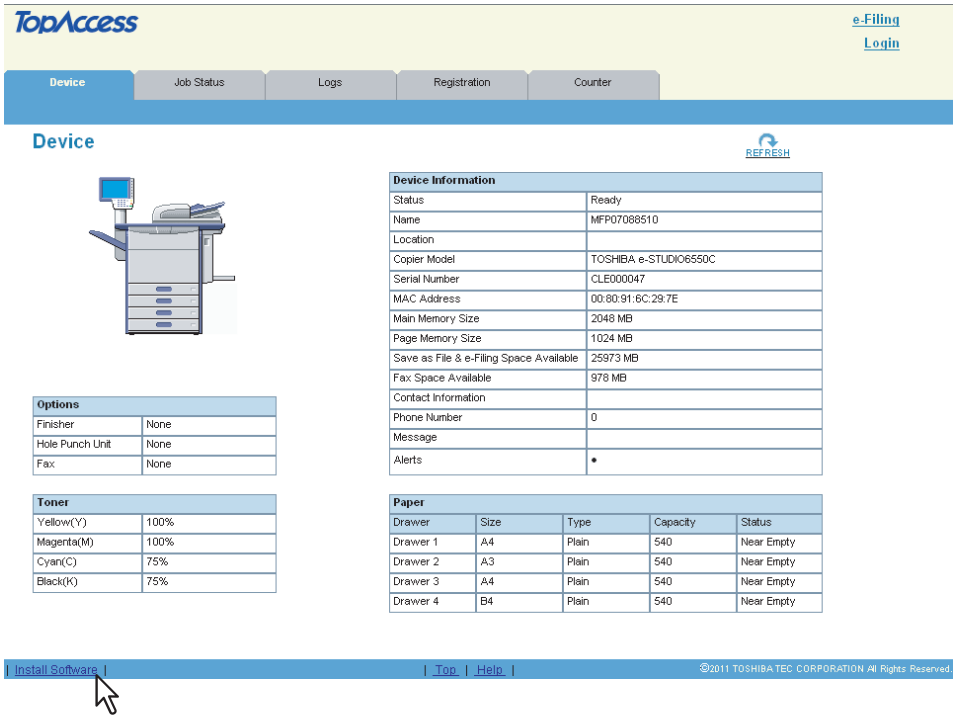
- Installer for Windows
  P.15 “Downloading installer for Windows”
- Macintosh PPD files
  P.16 “Downloading Macintosh PPD files”
- UNIX/Linux filters
  P.18 “Downloading UNIX/Linux filters”

Notes

- When using Windows Server 2003 that the Service Pack is installed, the installation from TopAccess cannot be performed. In that case, install the software in the other method.
- For instructions on how to start up the TopAccess or upload software to the equipment, refer to the ***TopAccess Guide***.

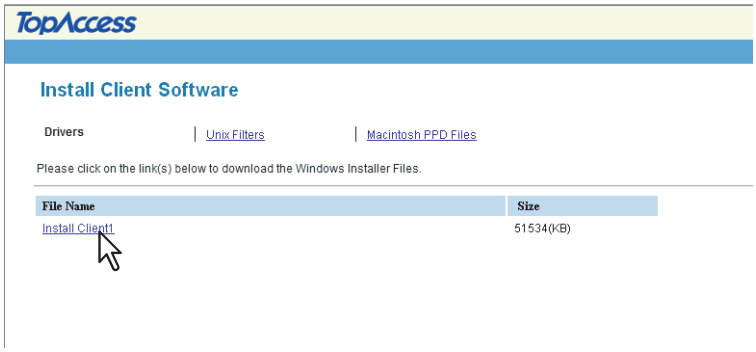
■ Downloading installer for Windows

1 In TopAccess, click the [Install Software] link at the bottom of the screen.



The Install Client Software page opens.

2 Click the [Install Client1] link to download the installer file.



3 Download the installer file on your desktop by following the prompts.

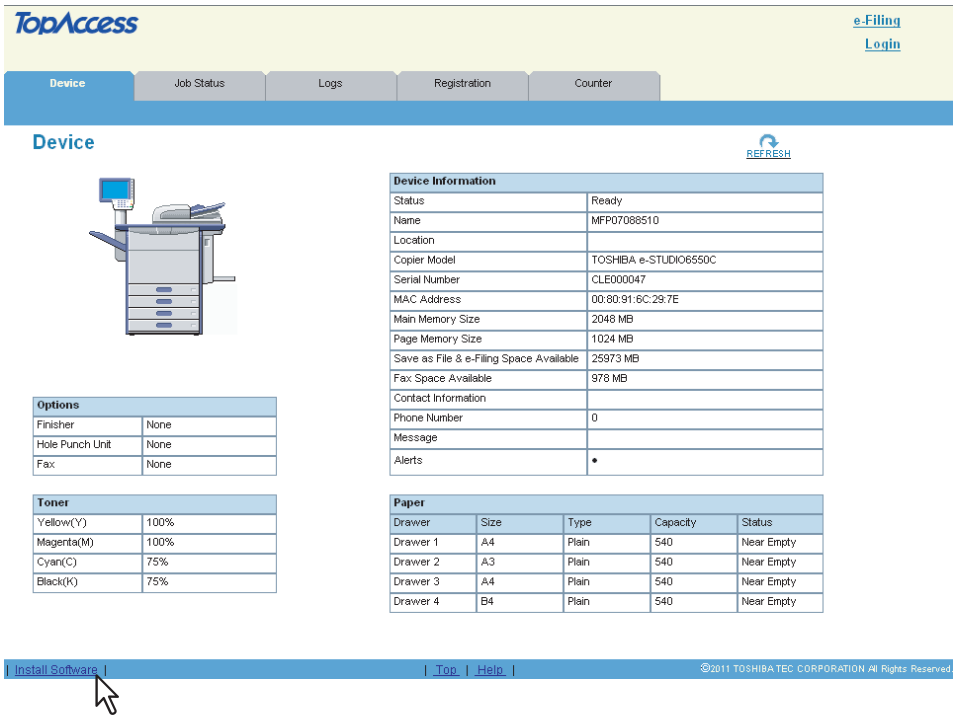
4 Double-click the downloaded file to extract the installer files.

After extracting the downloaded file, the folders that includes WebInstaller.exe are created. In order to install software using these files, you must run the WebInstaller.exe with an “Administrators” privilege. If you do not have the “Administrators” privilege, you can install by entering the Administrator password.
The names of folders that include WebInstaller.exe are as follows:

- ABV32 — contains the installer for AddressBook Viewer for Windows 32-bit edition OSs.
- ABV64 — contains the installer for AddressBook Viewer for Windows 64-bit edition OSs.
- FD — contains the installer for File Downloader.
- RS — contains the installer for Remote Scan driver.
- XPS — contains the installer for XPS printer driver.
- NWFAX — contains the installer for N/W-Fax driver.
- UNI — contains the installer for Universal Printer driver.
- PS3 — contains the installer for PS3 (PostScript) printer driver.
- TWAIN — contains the installer for TWAIN driver.
- WIA — contains the installer for WIA driver.

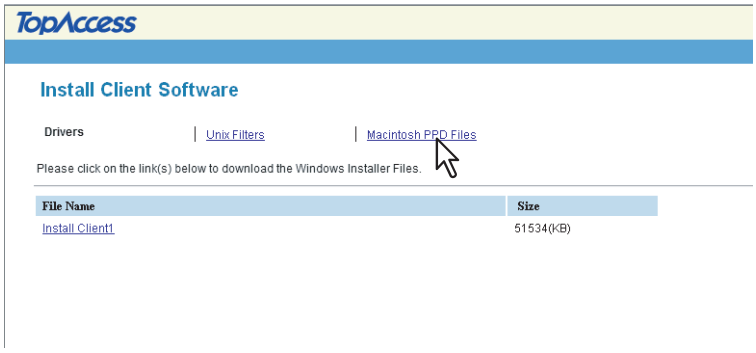
■ Downloading Macintosh PPD files

1 In TopAccess, click the [Install Software] link at the bottom of the screen.



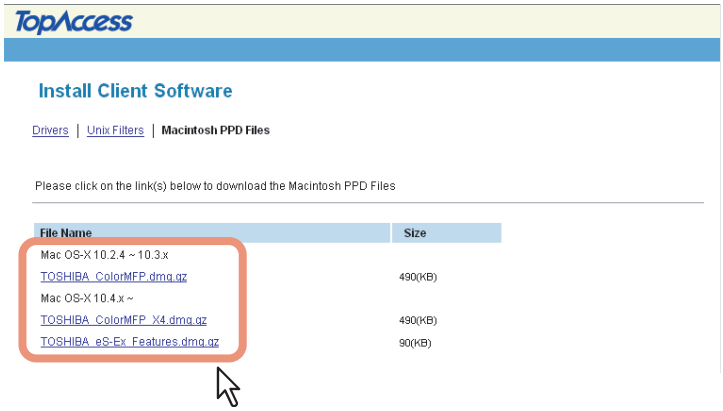
The Install Client Software page opens.

2 Click the [Macintosh PPD Files] link.



The software components list is displayed.

3 **Click the File Name link that you want to download.**

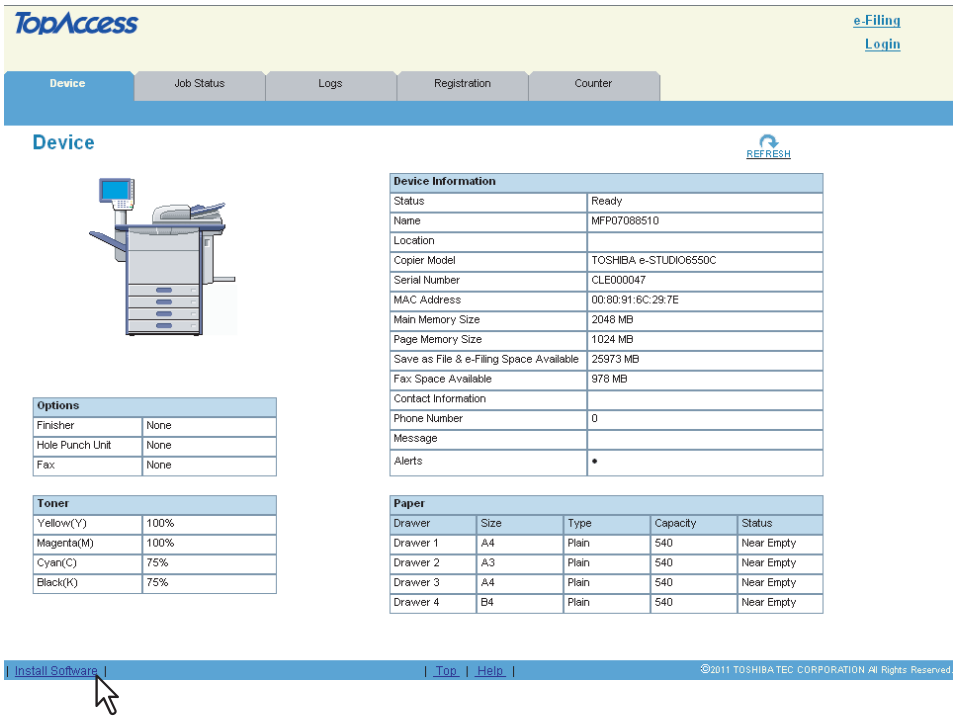


TOSHIBA_ColorMFP.dmg.gz — Click this link to download the PPD file for Mac OS X 10.2.4 to Mac OS X 10.3.x.
TOSHIBA_ ColorMFP_X4.dmg.gz — Click this link to download the PPD file for Mac OS X 10.4 or later.
TOSHIBA_ eS-Ex_Features.dmg.gz — Click this link to download plug-ins for Mac OS X 10.4 or later.

4 **Download the PPD file of your Mac OS version on your desktop by following the prompts.**

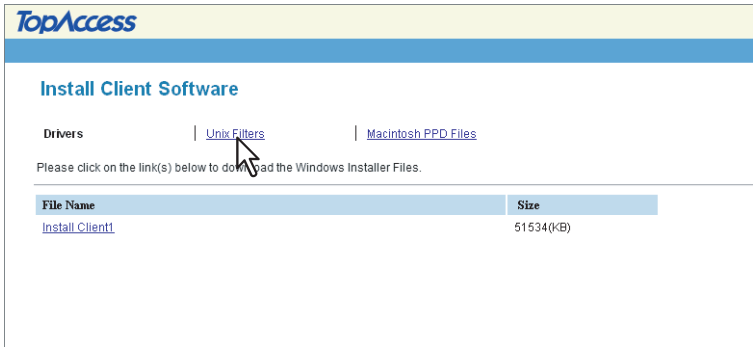
■ Downloading UNIX/Linux filters

1 **In TopAccess, click the [Install Software] link at the bottom of the screen.**



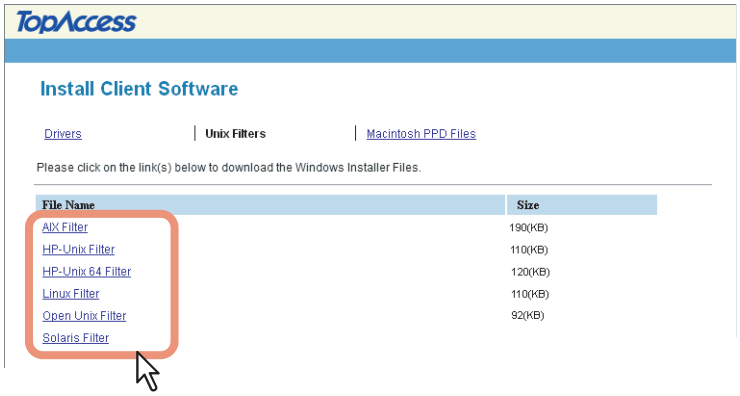
The Install Client Software page opens.

2 **Click the [Unix Filters] link.**



The software components list is displayed.

3 **Click the UNIX/Linux filter link that you want to install.**



4 **Download the UNIX/Linux tar file containing the UNIX/Linux filters on your desktop by following the prompts.**

Setting Up NetWare Print Server

This equipment supports the following Novell printing services:

- NetWare 6.5 NDS mode (over IPX/SPX only)
- NetWare 6.5 NDPS mode
- NetWare 6.5 iPrint mode

This chapter provides an overview of how to set up this equipment as a Novell Network Printer, Print Server, or NDPS Printer Agent. For more detailed information, refer to your Novell documentation.

■ Setting up the NetWare print server in NDS mode

The following explains how to set up a NetWare print server with NDS so that network users can print to this equipment from their computers, and this equipment can obtain print jobs from the NetWare print server. More detail is provided in your NetWare documentation.

1 **In NetWare Administrator, select the container object to create the printer and click the [Object] menu and select [Create].**
The [New Object] dialog box appears.

2 **In the [Class of new object] list, select [Print Queue] and click [OK].**
The [Create Print Queue] dialog box appears.

3 **Select [Directory Service Queue] and enter the name of the print queue in the [Print Queue name] box.**

4 **Click [browse] next to the [Print Queue Volume] box.**
The [Select Object] dialog box appears.

5 **Select the volume to create a print queue and click [OK].**

6 **Click [Create].**
The print queue is created.

7 **Click the [Object] menu and select [Create].**
The [New Object] dialog box appears.

8 **In the [Class of new object] list, select [Printer] and click [OK].**
The [Create Printer] dialog box appears.

9 **Enter the printer name, select the [Define additional properties] check box and click [Create].**

10 **Display the Assignments window and click [Add].**
The [Select Object] dialog box appears.

11 **Select a created queue and click [OK].**

12 **Display the Configuration window, select [Other/Unknown] in [Printer Type] box and click [OK].**
The printer is created.

13 **Click the [Object] menu and select [Create].**
The [New Object] dialog box appears.

14 **In the [Class of new object] list, select [Print Server] and click [OK].**
The [Create Print Server] dialog box appears.

15 **Enter the print server name, select the [Define additional properties] check box and click [Create].**
The print server name must be “MFP_[NIC Serial Number]”. You can find the Unit Serial Number of the equipment on the NIC Configuration page that can be printed from the control panel.

16 **Display the Assignments window and click [Add].**
The [Select Object] dialog box appears.

17 **Select a created printer and click [OK].**

18 **Click [OK] to close Assignments window for the print server.**
The print server is created.

■ Setting up the NetWare print server in NDPS mode

This equipment supports printing over NetWare 6.5 networks running either the TCP/IP protocols or the IPX protocol. For pure IP printing, this equipment takes advantage of features in NDPS (Novell Distributed Print Services).

Note

You must have administrator privileges on the network to create new NDPS objects.

NDPS is not like the earlier queue-based versions of NetWare printing. Instead, you use an NDPS Manager and a Printer Agent, which control the tasks previously handled by a print queue, print server, and spooler. You can also make the printer driver available for clients to download from Windows client computers.

Before configuring the NetWare print server in NDPS mode, confirm the following:

- For using Windows Vista as the client computers, NetWare 6.5 Support Pack 8 must be installed.
- Make sure you have a valid IP address for this equipment and for any computers that will print to it (when used in the TCP/IP network).
- In the equipment setup, enter the IP address, Subnet mask, and Gateway address for this equipment (when used in the TCP/IP network).
- To enable Novell iPrint, Novell iManager must be installed beforehand. For instructions on how to install the Novell iManager, see the documentation for the Novell iManager that is provided by Novell, Inc.
- Novell iPrint Client must be installed.
📖 P.23 “Setting up the Novell iPrint”

❑ Setting up NDPS

1 **Enter the URL “https://<IP address>/nps/iManager.html” into the address bar of your browser to launch iManager.**

2 **Enter the user name, password, and Tree to log in to Novell iManager.**

3 **Click [iPrint] in Roles and Tasks, and select [Create Broker].**
The dialog box for creating the broker appears.

Tip

If the NetWare print server has been installed as supporting the NDPS service, the NDPS Broker is created as default. In this case, you can use the default NDPS Broker.

4 **Specify the [Broker name] and [RMS Volume] options, and click [OK].**
The NDPS Broker is created.

5 **Click [iPrint] in Roles and Tasks, select [Create Print Manager].**
The dialog box for creating the Print Manager appears.

6 **Specify the [Print Manager name] and [Database volume] option, and click [OK].**
The NDPS Manager is created.

7 **Select [Manage Broker].**
The dialog box for selecting the NDPS Broker appears.

8 **Specify the preferred broker that has been created in [NDPS Broker name], and click [OK].**

Note

Click [Startup] to load the broker if it is not active.

9 **Select the [RMS Drivers] tab.**
The OS list tab appears.

Note

If the broker is not loaded, the operation for adding resources cannot be allowed. When the [RMS Drivers] tab is disabled, make sure that the broker is active.

10 **Select the applicable OS tab in the list.**
The drivers currently installed are displayed.

11 **Click [Add From File].**
The [Select Printer Driver] dialog box appears.

Note

The [Browse] button may not be available according to the Support Pack version. If the [Browse] button is disabled, specify "/DISABLETLSMGR" option when starting the nwadmin32.exe.

12 **Insert the Client Utilities CD-ROM into the CD-ROM drive.**
When you insert the Client Utilities CD-ROM into the CD-ROM drive, Software Installer may launch automatically. In this case, click [Exit] to close it and continue the operation.

13 **Locate the directory where the printer driver for your Windows version is located, select the INF file.**

- When using the Windows computer 32-bit edition, select the following folder:
  - To install the Universal Printer driver, locate "[Client Utilities CD-ROM]:\Client\Drivers\UNI\32bit\".
  - To install the PS3 printer driver, locate "[Client Utilities CD-ROM]:\Client\Drivers\PS\32bit\".
- When using the Windows computer 64-bit edition, select the following folder:
  - To install the Universal Printer driver, locate "[Client Utilities CD-ROM]:\Client\Drivers\UNI\64bit\".
  - To install the PS3 printer driver, locate "[Client Utilities CD-ROM]:\Client\Drivers\PS\64bit\".

14 **Click [OK].**
The driver installed is added to the Driver list.

15 **Repeat the procedure from step 11 to step 14 to add all printer drivers for the applicable OS.**

16 **Click [Apply] or [OK] to save the settings.**
Returns to the [NDPS Broker] dialog box.

17 **Select [Manage Print Manager].**
The dialog box for selecting NDPS Manager appears.

18 **Specify the preferred broker that has been created in [NDPS Manager name], and click [OK].**

Note

Click [Startup] to load the manager if it is not active.

19 **Continue the procedure according to which connection type to be used.**
P.21 "Configuring the LPR connection"
P.22 "Configuring the queue based connection"

❑ Configuring the LPR connection

1 **Select [Create Printer].**
The dialog box for creating the printer appears.

2 **Specify the [Printer name] and [Print Manager name] options, select [Novell Gateway] in the [Gateway Type] list, and then click [Next].**
The dialog box for configuring Novell Gateway appears.

3 **Enter the IP address of this equipment in [Host IP address], specify "PORT_PASSTHROUGH" in [LPR Printer name], and then click [Next].**
The dialog box for selecting the driver appears.

4 **Select the printer drivers to be installed in the [Printer Drivers] list at each OS tab, and click [Next].**
The screen telling you that the printer has been created normally appears.

5 **Click [OK].**

❑ Configuring the queue based connection

1 **Select [Management Printer].**

2 **Specify the printer in [NDPS Printer name], which is created for this equipment, and click [OK].**

Note

The printer with the LPR connection must be created beforehand.

3 **Select the [Client Support] tab.**
Client support information is displayed.

4 **Select [QMS Support].**

5 **Click [Add].**
The dialog box for selecting the queue appears.

6 **Select the NDS queue to be used, and click [OK].**
The selected queue appears on the queue list.

Note

The NDS queue must be created beforehand.

7 **Click [Apply] or [OK] to save the settings.**

■ Setting up the Novell iPrint

This equipment also supports the Novell iPrint. Using the Novell iPrint, you can set up the printer that can be accessed using URL from client computers. The Novell iPrint is based on the NDPS architecture so that you must have NDPS installed and configured in the NetWare print server.

Before setting up the Novell iPrint, confirm the following:

- The NDPS Broker, NDPS Manager, and NDPS Printer must be created.
  🕮 P.20 “Setting up NDPS”
- The Novell iManager must be installed.
  For more information about installing the Novell iManager, see the documentation for the Novell iManager that is provided by Novell, Inc.

In order to set up the iPrint system, the network administrator must do the following:

1. Installing Novell iPrint
   🕮 P.23 “Installing Novell iPrint”
2. Enabling the DNS on the Printer Services Manager
   🕮 P.23 “Enabling DNS”
3. Enabling iPrint service
   🕮 P.24 “Enabling Novell iPrint”

❑ Installing Novell iPrint

1 Install iPrint Client from “http://[IP address of NetWare server]/ipp”.

❑ Enabling DNS

Before enabling DNS for the Printer Services Manager, you should add the DNS name for the Printer Services Manager to the DNS server.
After you add the DNS to the DNS server, follow the steps below to enable the DNS on the Printer Services Manager.

1 At the server console, enter the following syntax.

```
NDPSM <NDPS Manager Name> /dnsname=<NDPS Manager DNS Name>
```

❑ Enabling Novell iPrint

After enabling DNS on the Printer Services Manager, enable the Novell iPrint using the Novell iManager.

Notes

- To do this, Novell iManager must be installed on your NetWare print server. For information about installing iManager, see the documentation for Novell iManager that is provided by Novell, Inc.
- You must use a supported browser to access iManager. The supported browsers vary depending on the version of iManager that you installed.
  For iManager 1.5.2
  - Microsoft Internet Explorer 5.5 or later (Recommended)
  - Netscape 6.2 or later

  For iManager 2.0.x
  - Microsoft Internet Explorer 6 SP1 or later (Recommended)
  - Netscape 7.1 or later
  - Mozilla 1.4 or later

1 Enter the URL "https://<IP address>/nps/iManager.html" into the address bar of your browser to launch iManager.

2 Enter the user name, password, and Tree to log in to Novell iManager.

3 Click [iPrint] in Roles and Tasks, and click [Manage Printer].

4 Select the printer that you created for the equipment.

5 Click [OK].

6 Click [Client Support] and click [iPrint Support].

7 Select the [Enable iPrint support] check box.

8 If you want to secure printing, select the [Enable secure printing] check box.
When the option is enabled, users must be authenticated to eDirectory using the user name and password.

9 Click [Apply] or [OK] to save settings.

2

RECOMMENDED INSTALLATION

This chapter describes the recommended installation of the Installer.

Procedure for Recommended Installation 26

Precautions for Changing the SNMP Settings 31

Procedure for Recommended Installation

Install the software using the recommended installation when you want to do so for the Universal Printer driver and other client software on a Windows computer.

Note

To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.
If Windows Vista / Windows 7 / Windows Server 2008 is used, you can perform the installation by temporarily changing the user account following the procedure below.

- Open the “e-STUDIO” folder in a CD-ROM, and then double-click “Setup.exe”.
- When the [User Account Control] dialog box is displayed, enter an administrator password, and then click [Yes] ([OK]).

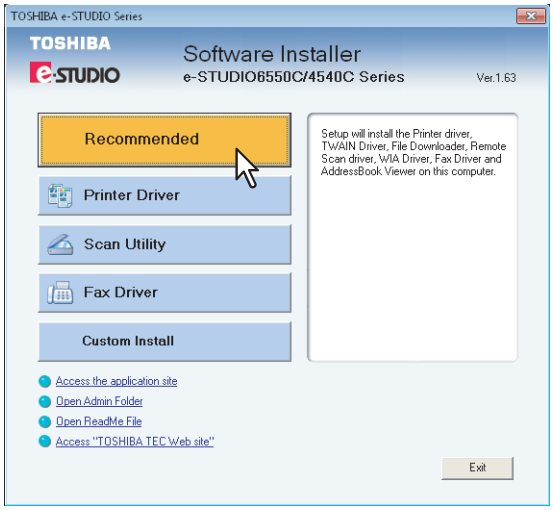
1 Insert the Client Utilities CD-ROM into the CD-ROM drive.

If Software Installer does not automatically start, use the Explorer to open the “e-STUDIO” folder in the Client Utilities CD-ROM and double-click “Setup.exe”.

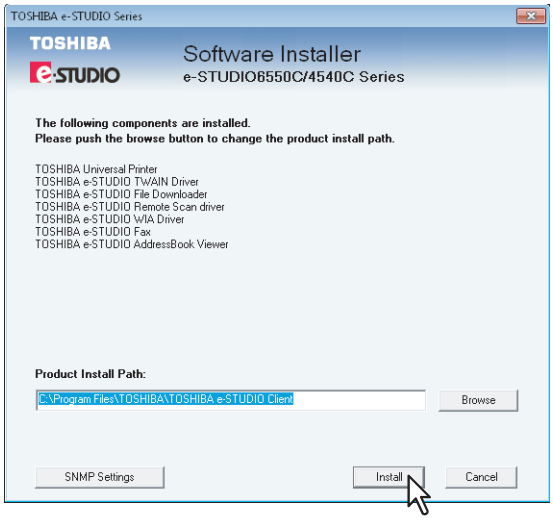
2 Select [I agree to the terms of the License Agreement.] and click [Next].

- To change the display language, select a desired language from the [Select Language] box.
- The main menu is displayed.

3 Click [Recommended].



4 Confirm the list of the software to install and click [Install].



You can change the folder where AddressBook Viewer and File Downloader are installed. Click [Browse] and, when the [Browse for Folder] dialog box appears, select a folder and click [OK].

Notes

- If the following message appears, click [Continue].

  See step 7 or later in the following section to continue the installation:
  📖 P.41 “If your TOSHIBA MFP is not found”
- When you want to install the PS3 printer driver and XPS printer driver, perform installation from [Custom Install] or by using the individual installers.
  For details, see the following page:
  📖 P.36 “Installing the Printer Drivers”

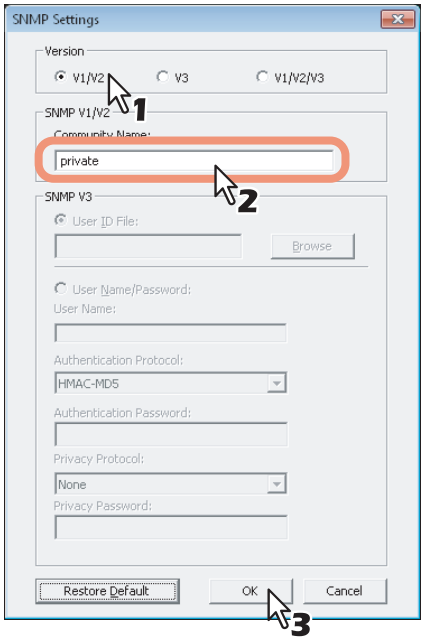
[SNMP Settings]

If the SNMP settings are not the same in your TOSHIBA MFP and the [SNMP Settings] dialog box, you cannot find your TOSHIBA MFP. Verify the correct SNMP settings on the [SNMP Settings] dialog box and change the settings, if needed.

Ask the administrator for details on the SNMP settings configured for your TOSHIBA MFP.

When SNMP V1 and V2 are used,

1. Click [V1/V2] if a community name other than “private” (default) is set for the SNMP community name for your TOSHIBA MFP.
2. Change the SNMP community name.
3. Click [OK].



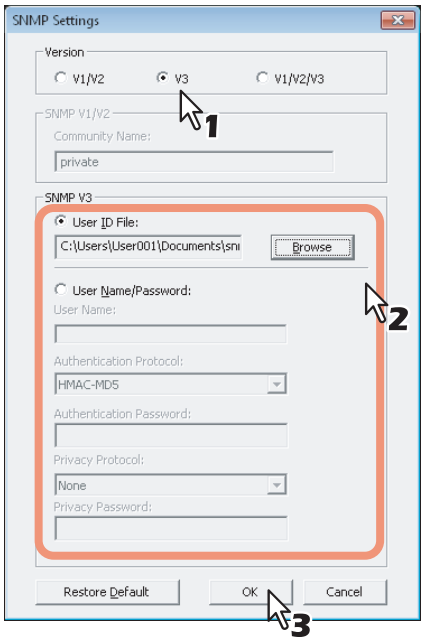
Note

When you change the SNMP community name, see the following page:

📖 P.31 “Precautions for Changing the SNMP Settings”

When SNMP V3 is used,

1. Click [V3].
2. When a user ID file is used for authentication, click [Browse] to specify the file.
   When user authentication information is used for authentication, click [User Name/Password] to enter necessary information.



Notes

- Consult the administrator for preliminary advice on how to authenticate users.
- When you change the SNMP settings, see the following page:
  📖 P.31 “Precautions for Changing the SNMP Settings”

3. Click [OK].

* When SNMP V1, V2, and V3 are configured for your TOSHIBA MFP, perform both of the above settings.

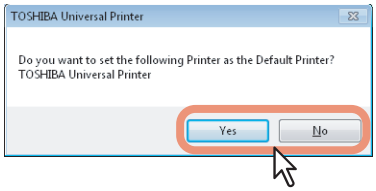
5 A list for the discovered printers is displayed. Then select this equipment on the list and then click [OK].

The TCP/IP port is created.

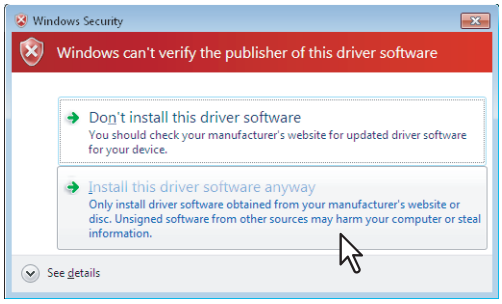
6 The installation starts.

Notes

- If the following message appears, click [Yes] to set the Universal Printer driver to be the default printer driver, or click [No] to not change the default printer driver.



- If the following message appears, click [Install this driver software anyway] to proceed with the installation.



7 When the installation is complete, click [Finish].

The main menu is displayed.

Note

The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

8 Click [Exit].

When a message “Do you want to close TOSHIBA e-STUDIO Software Installer?” appears asking whether to finish the installation, click [Yes].

Note

Before using the Universal Printer driver for printing, configure the installed options of the equipment and department code (if required) on the printer driver. Refer to the ***Printing Guide*** for the instructions.

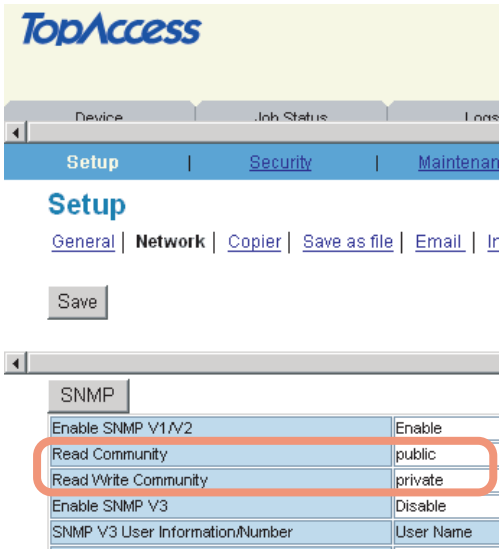
Precautions for Changing the SNMP Settings

When the SNMP community name or user information is used for authenticating users on your TOSHIBA MFP, the SNMP settings must be the same in your TOSHIBA MFP and the [SNMP Settings] dialog box as shown below in order to print or send jobs normally.
For help, consult the administrator.

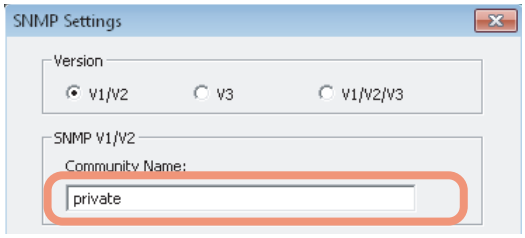
■ When SNMP V1 and V2 are configured for your TOSHIBA MFP

When the TCP/IP port is used, the SNMP community names must be the same in the following 3 settings.

1. Your TOSHIBA MFP (Example: Read Community “public” and Read Write Community “private” are set.)

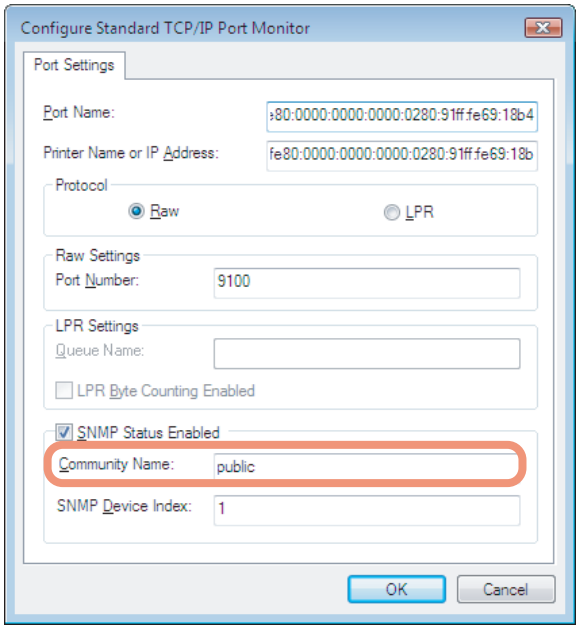


2. [SNMP Settings] dialog box



The Read Write Community names must be the same in your TOSHIBA MFP and the [SNMP Settings] dialog box.
If you specify the incorrect Read Write Community name, the several functions, such as the department management feature will be disabled.

3. TCP/IP port of the [Ports] tab in the printer driver/N/W-Fax driver



The Read Community Names must be the same in your TOSHIBA MFP and the [Ports] tab.

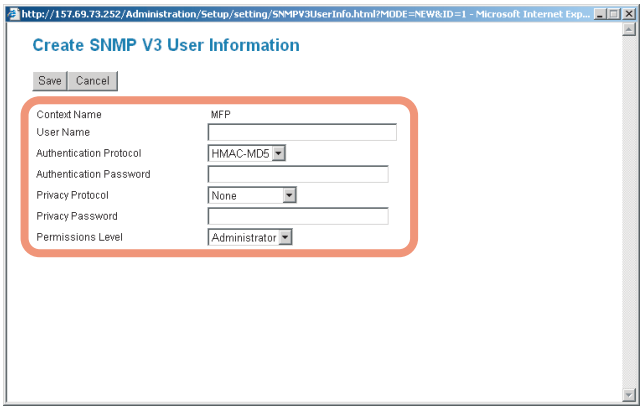
Notes

- When the SMB port is used, the Read Write Community names must be the same in your TOSHIBA MFP and the [SNMP Settings] dialog box.
- The SNMP settings also must be the same in your TOSHIBA MFP and the applications (TWAIN driver, File Downloader, and AddressBook Viewer) included in the Client Utilities CD-ROM. If the settings are different between them, the applications will be unavailable.

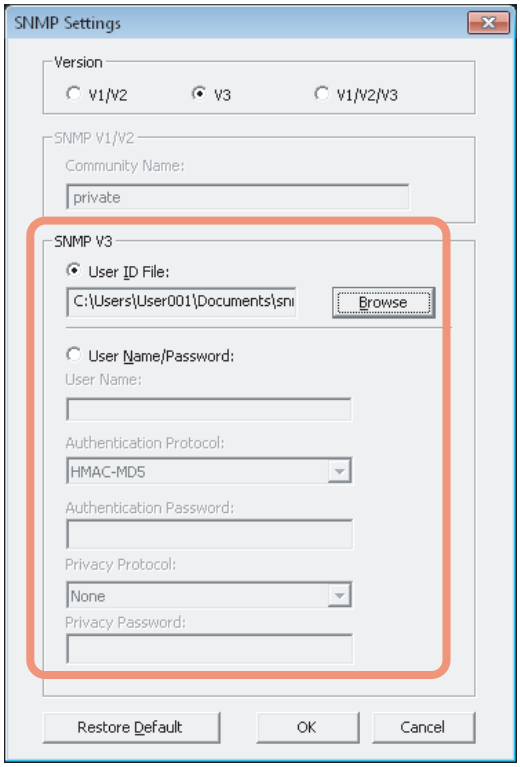
■ When SNMP V3 is configured for your TOSHIBA MFP

The SNMP settings must be the same in the following 2 settings.

1. SNMP V3 User Information in your TOSHIBA MFP



2. [SNMP Settings] dialog box



SNMP V3 User Information must be the same in your TOSHIBA MFP and the [SNMP Settings] dialog box.

Note

The SNMP settings also must be the same in your TOSHIBA MFP and the applications (TWAIN driver, File Downloader, and AddressBook Viewer) included in the Client Utilities CD-ROM. If the settings are different between them, the applications will be unavailable.

3

INSTALLING PRINTER DRIVERS FOR WINDOWS

This chapter describes the instructions on how to install the printer drivers on Windows.

Before Installation 34
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- About installation procedure 34

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- Installing the printer drivers by using Software Installer 36
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- Windows 7 111
- Windows Vista / Windows Server 2008 113
- Windows XP / Windows Server 2003 116

Before Installation

This section will help you to plan an installation suited to your environment. Before installing the printer driver, read this section.

When same printer drivers have been installed previously

Before updating the printer drivers, delete the existing printer drivers.
📖 P.111 “Uninstalling Printer Drivers”

■ Type of printer drivers

- **Universal Printer driver** — Two printer drivers (PCL6 and PS3) are integrated into this Printer driver. You can use it depending on the purposes of the applications in various usages.
- **PS3 printer driver** — This printer driver is suitable for printing from a general application, such as word processing or calculation, and a DTP application supporting PostScript.
- **XPS printer driver** — This printer driver is suitable for printing from an application developed exclusively for Windows Vista, such as Windows Presentation Foundation (WPF).

Tips

- The Universal Printer driver allows you to use both PCL and PS3 by shifting PDL (Page Description Language). It also allows you to print documents on other equipment of the e-STUDIO series. For details, refer to the ***Printing Guide***.
- The XPS printer driver can be installed on Windows Vista / Windows 7 computers, or those of Windows XP SP2, Windows Server 2003 SP1 or later versions with XPS Essentials Pack installed.
- A printer description file for popular Windows applications is contained in the Client Utilities CD-ROM. Copy the file to a proper directory. For details, see the following page:
  📖 P.110 “Copying the PPD File for Windows”

■ System requirements

To install the printer drivers and other client software on a Windows computer, the following is required.

- **Display resolution**
  1024 x 768 dots or more
- **Display color**
  High Color (16bit) or higher is recommended
- **CPU**
  Pentium 133 MHz minimum (Pentium 266 MHz or faster recommended)
- **Memory**
  The required memory size for OS.
- **OS**
  Windows XP Service Pack 2 or later
  Windows Vista Service Pack 1 or later
  Windows 7
  Windows Server 2003 Service Pack 2
  Windows Server 2008 Service Pack 1 or later

■ About installation procedure

Find the installation procedure suited to your environment from the following:

Raw TCP/LPR printing

This equipment supports the Raw TCP and LPR printing via TCP/IP. When this equipment is connected to your computer in a TCP/IP network, Raw TCP/LPR printing may be most suitable.
📖 P.36 “Installing the Printer Drivers”

Tips

- To print with a Raw TCP connection, this equipment must be configured to enable Raw TCP Print Service. Ask your administrator if the Raw TCP Print Service is enabled.
- To print with a LPR connection, this equipment must be configured to enable LPD Print Service. Ask your administrator if the LPD Print Service is enabled.

SMB printing

This equipment can be used with an SMB printer connection that allows you to connect to this equipment using File and Printer Sharing for Microsoft Networks service. SMB printing is the common method used to set up the printer. However, SMB printing is not suitable for printing a large amount of documents.
SMB printing can be set up by installing the printer drivers using the Installer, and also by Point and Print.
P.36 “Installing the Printer Drivers”
P.87 “Point and Print”

Note

It assumes using SMB printing in a small network. If you can use Windows XP, Windows Vista, Windows 7, Windows Server 2003, or Windows Server 2008 as a print server, it is recommended to set up for printing via Windows print server.

Internet printing

If you print to this equipment over the Internet, you can use IPP printing under Windows XP, Windows Vista, Windows 7, Windows Server 2003, and Windows Server 2008. This allows you to print to this equipment from anywhere on the Internet.
P.89 “IPP printing”

Tip

To print with an IPP connection, this equipment must be configured to enable the IPP Print Service and must be connected to the Internet. Ask your administrator if the IPP Print Service is enabled.

Novell printing

When this equipment is configured to manage printing with NetWare 6.5 over TCP/IP or IPX/SPX, you can print through the NetWare print server from Windows XP, and Windows Server 2003. In this case, install the printer driver and set up the SMB printer connection to a print queue created in the NetWare print server.
P.36 “Installing the Printer Drivers”

Tip

To print with a Novell connection, the NetWare server must be configured for printing and this equipment must be configured to enable NetWare Print Service. Ask your administrator if the NetWare Print Service is enabled.

Novell iPrint

When this equipment is configured to manage Novell iPrint with NetWare 6.5 over TCP/IP, you can print through the NetWare print server from Windows XP, and Windows Server 2003. In this case, install the printer driver using iPrint Client from the NetWare server.
P.100 “Novell iPrint”

Tip

To print with a Novell iPrint, the NetWare server must be configured for iPrint and this equipment must be configured to enable NetWare Print Service. Ask your administrator if the NetWare Print Service is enabled.

Web Service Print

When this equipment is connected in a TCP/IP network, Web Services Print can be operated at the client computer using the function of Windows Vista / Windows 7 / Windows Server 2008.
P.101 “Web Service Print”

Tip

Web Services Print is the function of Windows Vista / Windows 7 / Windows Server 2008.

Installing the Printer Drivers

This section describes how to install a printer driver to a computer with a Windows OS.

The following two options are available to install the printer drivers by using the Client Utilities CD-ROM.

- Using Software Installer contained in the Client Utilities CD-ROM
  When you insert the Client Utilities CD-ROM into the CD-ROM drive, Software Installer will launch automatically. This program allows you to install the printer drivers and other client software on your computer. Use this option to install the printer drivers and other client software in one go.
  P.36 “Installing the printer drivers by using Software Installer”
- Using the individual installers contained in the Client Utilities CD-ROM
  The individual installers (Setup.exe) are contained in the Client Utilities CD-ROM, which enable you to install the Universal Printer driver, PS3 printer driver, and XPS printer driver individually. Use this option to install only the preferred printer driver.
  P.55 “Installing the printer drivers by using the individual installers”

■ Installing the printer drivers by using Software Installer

Perform installation corresponding to your Windows computer.

Notes

- To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.
  If Windows Vista / Windows 7 / Windows Server 2008 is used, you can perform the installation by temporarily changing the user account following the procedure below.
  - Open the “e-STUDIO” folder in a CD-ROM, and then double-click “Setup.exe”.
  - When the [User Account Control] dialog box is displayed, enter an administrator password, and then click [Yes] ([OK]).
- Even when you have logged on Windows with the “Administrator” account, the [User Account Control] dialog box may appear. In this case, click a button for allowing the operation, such as [Continue], and continue the operation.

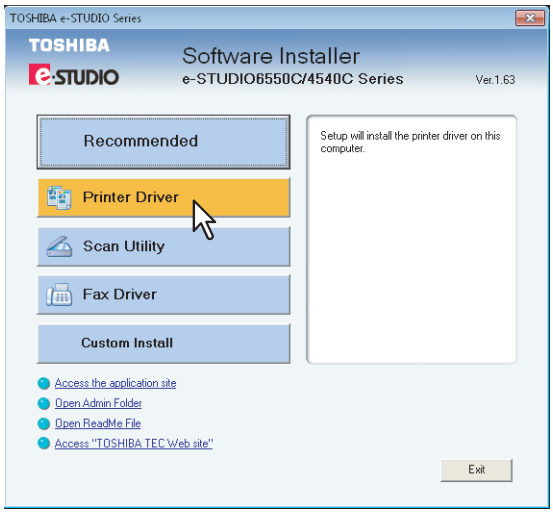
1 Insert the Client Utilities CD-ROM into the CD-ROM drive.

If Software Installer does not automatically start, use the Explorer to open the “e-STUDIO” folder in the Client Utilities CD-ROM and double-click “Setup.exe”.

2 Select [I agree to the terms of the License Agreement.] and click [Next].

- To change the display language, select a desired language from the [Select Language] box.
- The main menu is displayed.

3 Click [Printer Driver] or [Custom Install].



Printer Driver — This option allows you to install only the Universal Printer driver. When you select it, proceed to step 5.
Custom Install — This option allows you to select the printer drivers and utilities which you want to install. When you select it, proceed to step 4.

Note

When you want to install the PS3 printer driver and XPS printer driver, perform installation from [Custom Install] or by using the individual installers.
P.55 “Installing the printer drivers by using the individual installers”

4 When you have selected [Custom Install] in step 3, select the software items which you want to install, and then click [Next].

You can install the following printer drivers:
- TOSHIBA Universal Printer
- TOSHIBA e-STUDIO Series PS3
- TOSHIBA e-STUDIO Series XPS

Tip

In the above dialog box, the software items for scan operations and fax operations are also listed. You can install them together with the printer drivers, if necessary.

5 Confirm the list of the software to install and click [Install].

Installation starts.

Tips

- The XPS printer driver can be installed on Windows Vista / Windows 7 computers, or those of Windows XP SP2, Windows Server 2003 SP1 or later versions with XPS Essentials Pack installed.
- When you want to verify and/or change the SNMP settings to find the target TOSHIBA MFPs, see step 4 in the following section:
  🕮 P.26 “Procedure for Recommended Installation”

6 Configure the printer port.

The procedure for configuring the printer port varies depending on the connection. Go to the steps suited to your connection.

🕮 P.39 “Raw TCP/LPR printing”
🕮 P.49 “SMB printing”
🕮 P.53 “Novell printing”

❑ Raw TCP/LPR printing

Configure the Raw TCP/LPR port as described in the following procedure.

Note

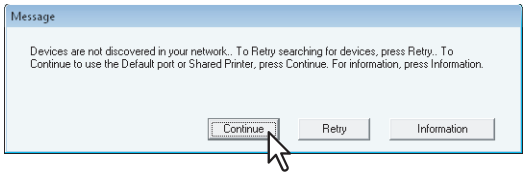
Confirm the following before starting the configuration:
- This equipment is connected to the network and turned on.
- The TCP/IP setting is correct on this equipment and your computer.

Searching your TOSHIBA MFP automatically

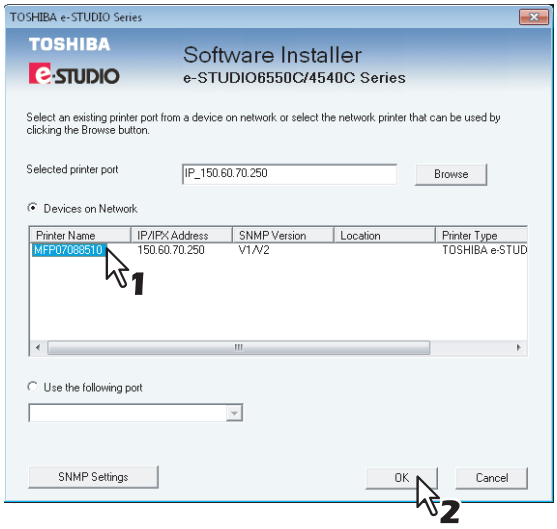
This equipment is automatically discovered over the network. Then you can install printer driver so as to configure the Raw TCP/LPR port.

Note

If this equipment is not discovered over the network after the installation is started, a dialog box indicating this appears. Follow the procedure below to continue the configuration.
- To search this equipment over the network again, click [Retry].
- Confirm the SNMP settings specified in the [SNMP Settings] dialog box.
- To select a temporary local port and then configure the Raw TCP/LPR port, click [Continue]. Then follow the procedure as described in the following page:
  📖 P.41 “If your TOSHIBA MFP is not found”



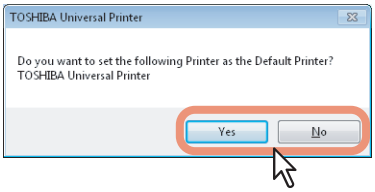
7 A list for the discovered printers is displayed. Then select this equipment on the list and then click [OK].



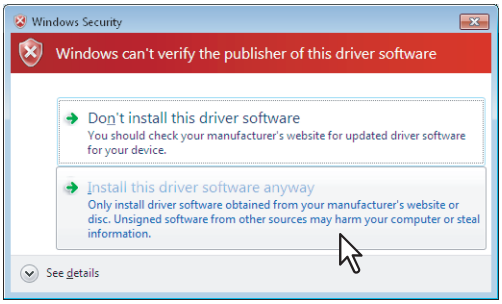
The TCP/IP port is created.

Tips

- Searching may take a while depending on the Windows OS or network environment.
- If a dialog box prompting you to confirm the setting of a printer for normal use appears, click [Yes] or [No].



- If the [Windows Security] dialog box appears, click [Install this driver software anyway].



8 Confirm that the installation is completed, and then click [Finish].

Tip

The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

9 Click [Exit].

When a message appears asking whether to finish the installation, click [Yes].

Note

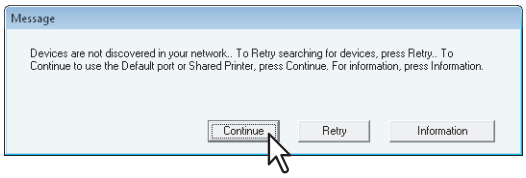
Before using the printer driver for printing, configure the installed options of the equipment and department code (if required) on the printer driver. Refer to the ***Printing Guide*** for the instructions.

If your TOSHIBA MFP is not found

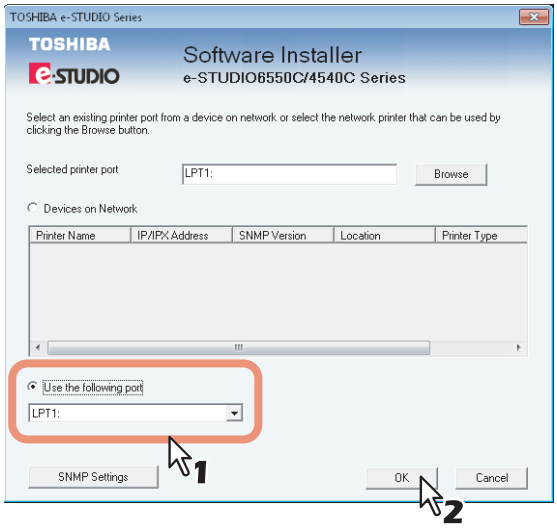
If your TOSHIBA MFP is not found, you must first install the printer driver by temporarily selecting a local port and then configuring the Raw TCP/LPR port.

Note

If this equipment is not discovered over the network after the installation is started, a dialog box indicating this appears. Click [Continue] to continue the configuration.

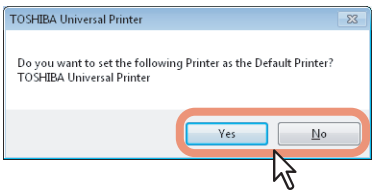


7 Select [Use the following port] and then select “LPT1: ”. Then click [OK].

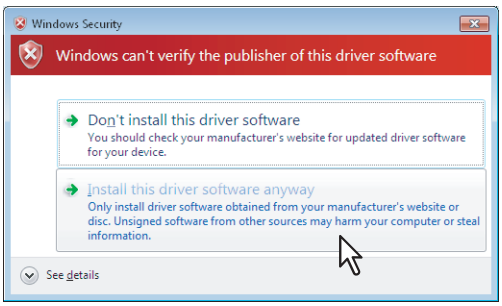


Tips

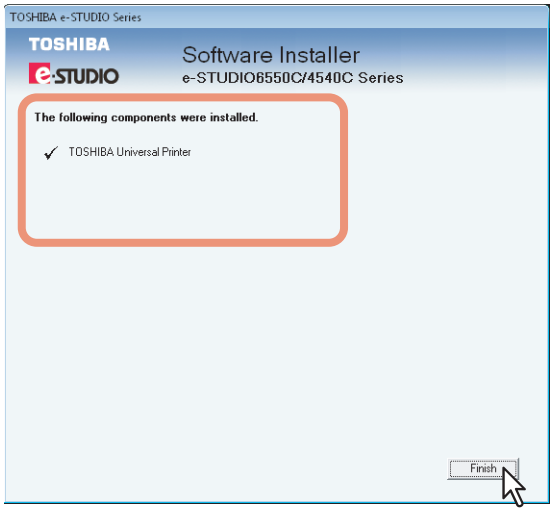
- If a dialog box prompting you to confirm the setting of a printer for normal use appears, click [Yes] or [No].



- If the [Windows Security] dialog box appears, click [Install this driver software anyway].



8 Confirm that the installation is completed, and then click [Finish].



Tip

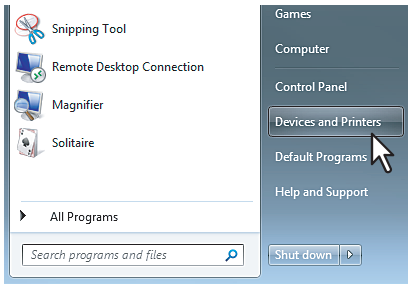
The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

9 Click [Exit].

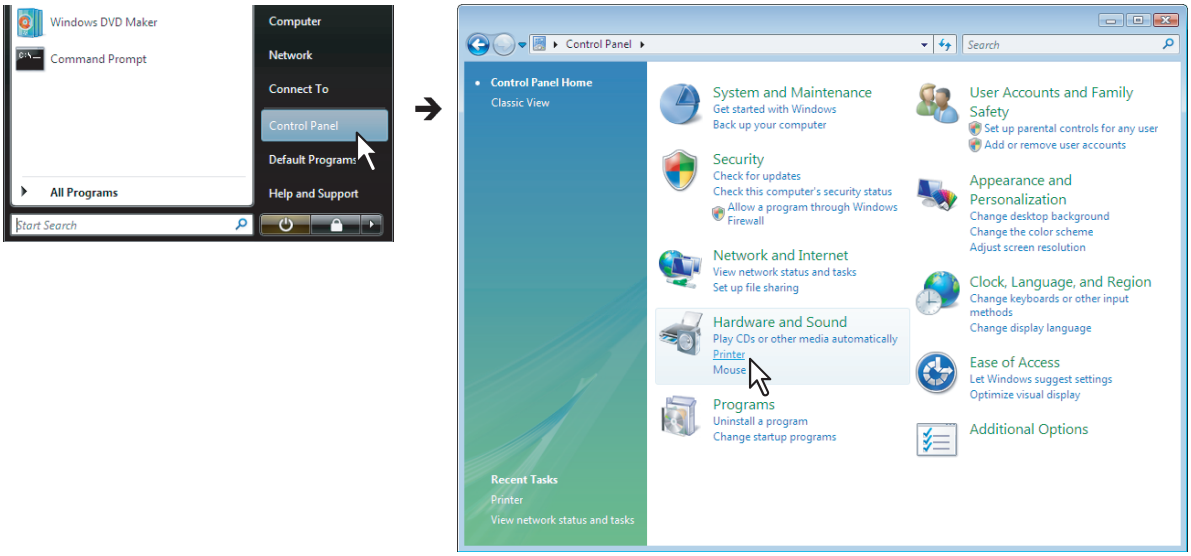
When a message appears asking whether to finish the installation, click [Yes].

10 Open the printers folder.

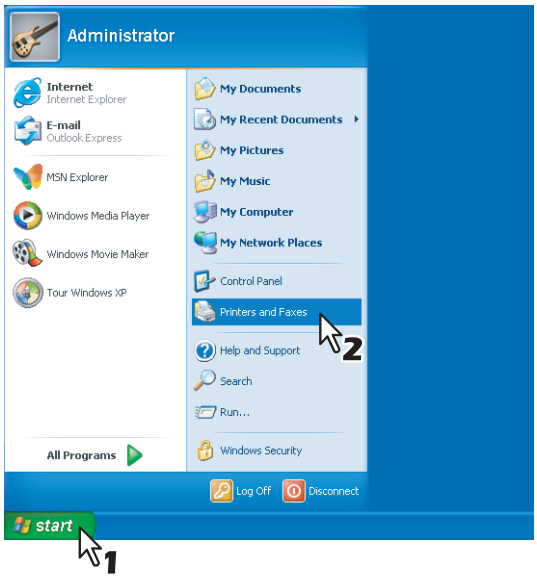
- When you are using Windows 7
  Click [Start] and click [Devices and Printers] to open the [Devices and Printers] folder.



- When you are using Windows Vista / Windows 2008 Server
  Click the start button, select [Control Panel] and click [Printer] under [Hardware and Sound] to open the [Printers] folder.

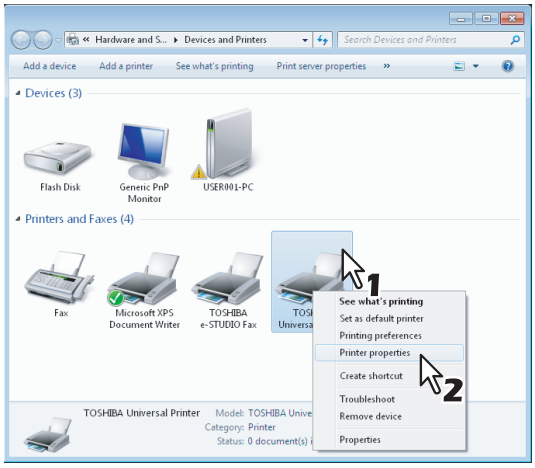


- When you are using Windows XP / Windows 2003 Server
  Click [Start] and click [Printers and Faxes] to open the [Printers and Faxes] folder.

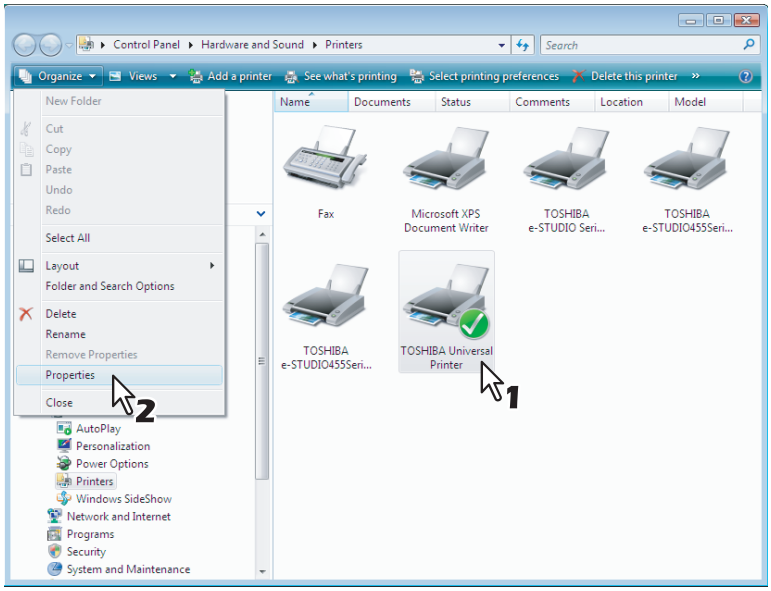


11 Open the printer driver properties dialog box.

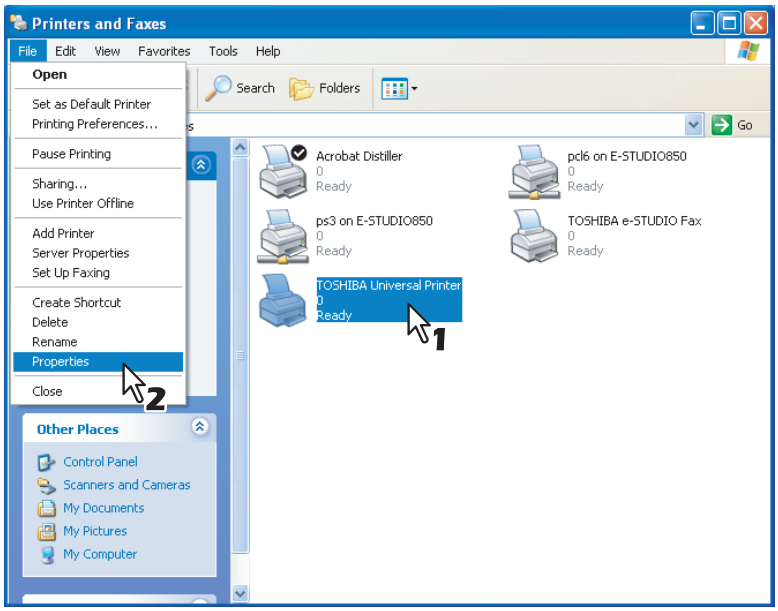
- When you are using Windows 7
  Select the installed printer driver and right-click to make the menu appear, then click [Printer properties].



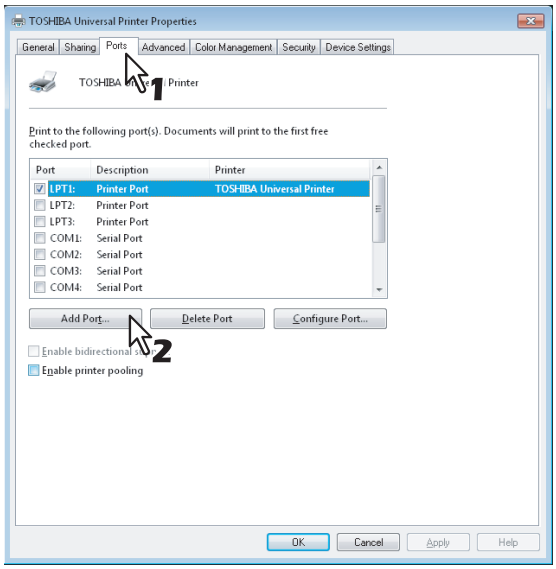
- When using Windows Vista / Windows Server 2008
  Select the installed printer driver. Click [Organize] and then [Properties].



- When using Windows XP / Windows Server 2003
  Select the installed printer driver, and select [Properties] in the [File] menu.

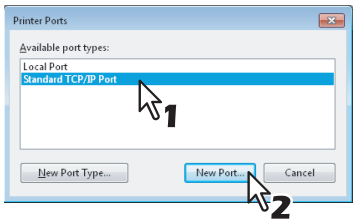


12 Click the [Ports] tab and click [Add Port].



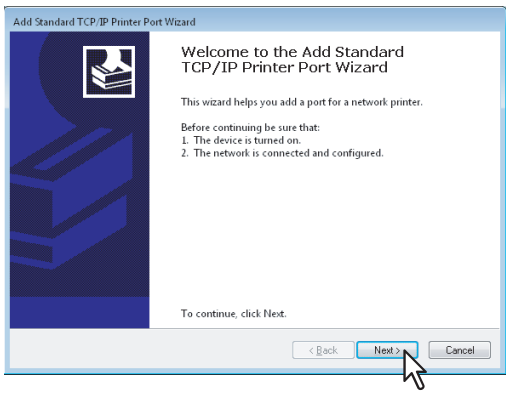
The [Printer Ports] dialog box appears.

13 Select [Standard TCP/IP Port] and click [New Port].

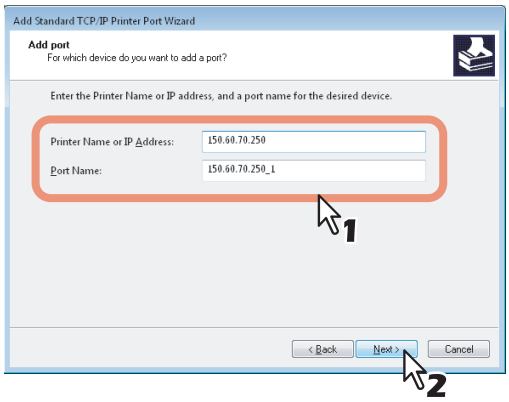


The [Add Standard TCP/IP Printer Port Wizard] dialog box appears.

14 Click [Next].



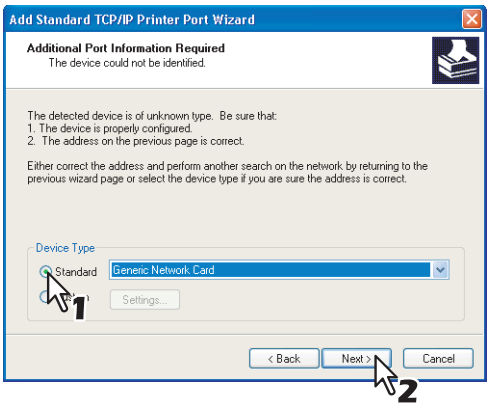
15 Enter the IP address of this equipment in the [Printer Name or IP Address] box and click [Next].



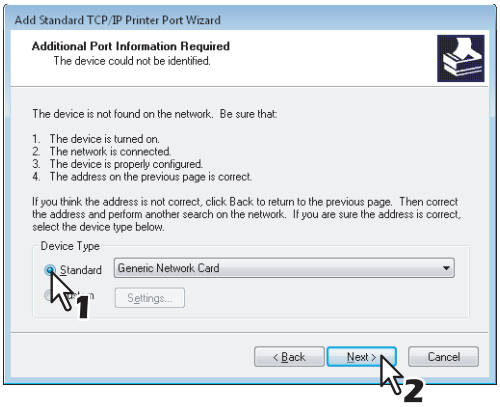
- If your network uses a DNS or WINS server, enter the printer name of this equipment provided from DNS or WINS in the [Printer Name or IP Address] box.
- In the [Port Name] box, the port name is automatically entered according to the IP address or DNS name entered in the [Printer Name or IP Address] box. When installing on Windows XP / Windows Server 2003, “IP_” is added in front of the IP address that is displayed in the [Port Name] box.
- Enter the IPv6 address in the [Printer Name or IP Address] box when the MFP is connected in an IPv6 network.

Tips

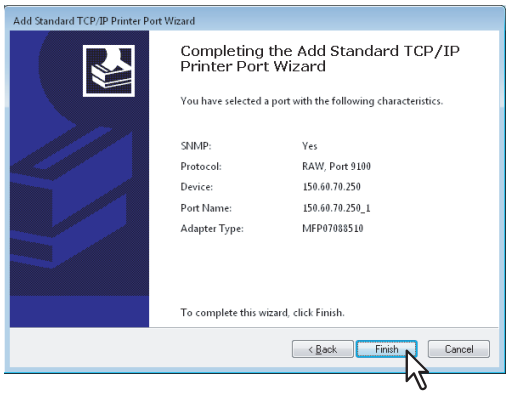
- When the following dialog box is displayed on Windows XP / Windows Server 2003, select [Standard] and click [Next].



- When the following dialog box is displayed on Windows Vista / Windows 7 / Windows Server 2008, select [Standard] and click [Next].

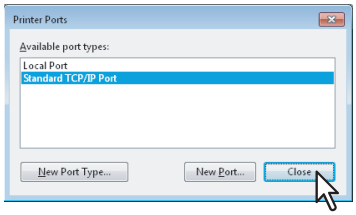


16 Click [Finish].

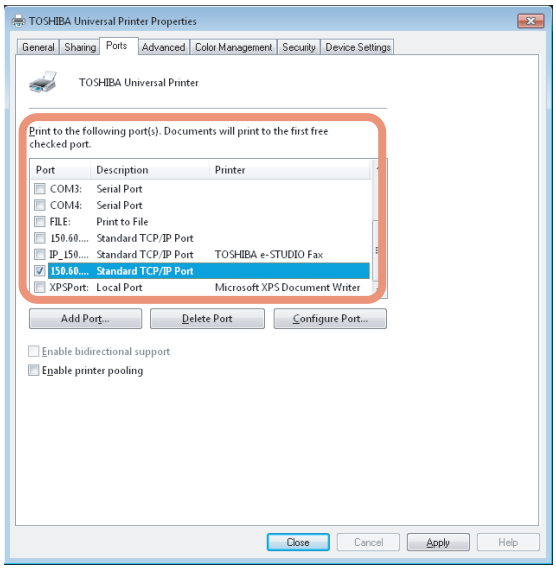


The screen returns to the [Printer Ports] dialog box.

17 Click [Close] to close the [Printer Ports] dialog box.



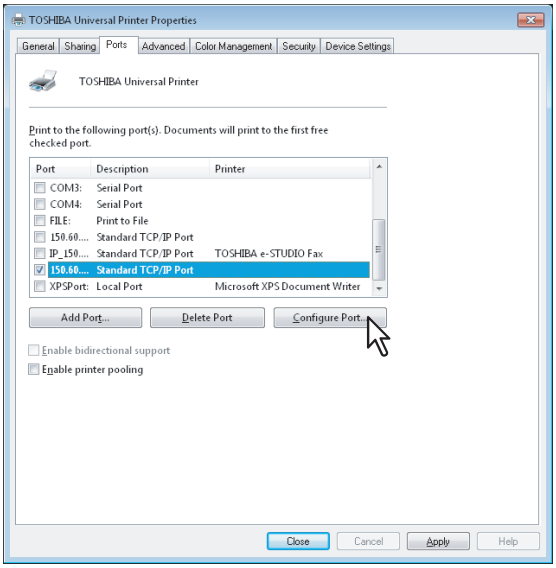
18 Make sure the created Raw TCP or LPR port is checked in the [Print to the following port(s)] list.



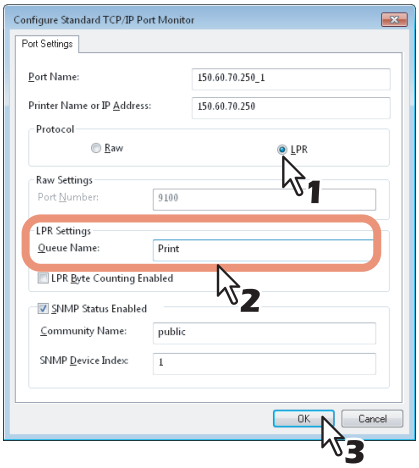
Tip

When the LPD Print setting is enabled, you can also configure LPR printing. When you want to configure LPR printing, follow the procedure below.

1. Click [Configure Port].

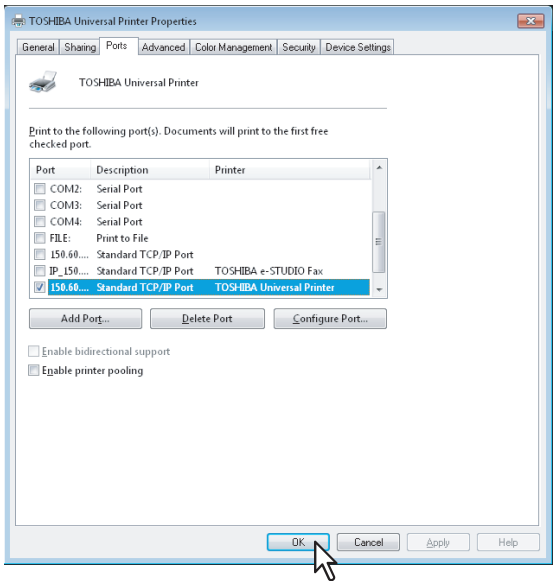


2. Select [LPR] at the [Protocol] group, enter “print” in the [Queue Name] box at the [LPR Settings] group, and then click [OK].



19 **Click [Apply].**

20 **Click [OK] to save the setting.**



Note

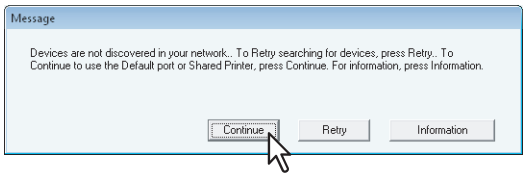
Before using the printer driver for printing, configure the installed options of the equipment and department code (if required) on the printer driver. Refer to the ***Printing Guide*** for the instructions.

❑ SMB printing

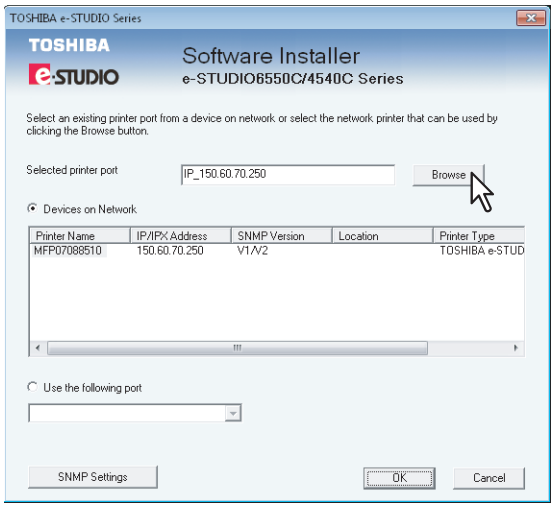
Install a printer driver by specifying the SMB port manually.

Notes

- It assumes using SMB printing in a small network. If you can use Windows XP, Windows Vista, Windows 7, Windows Server 2003, or Windows Server 2008 as a print server, it is recommended to set up for printing via Windows print server.
- Before starting the configuration, make sure that this equipment is connected to a network and also that its power is turned ON.
- If this equipment is not discovered over the network after the installation is started, a dialog box indicating this appears. Click [Continue] to continue the configuration.



7 Click [Browse].

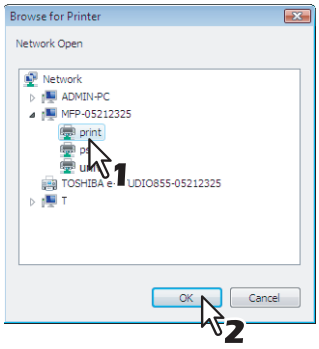


The [Browse for Printer] dialog box appears.

Tips

- If you know the IP address or the host name of this equipment, you can specify a printer port with the direct entry from the keyboard instead of clicking [Browse]. Enter a network path shown below in [Selected printer port], and then go to step 9.
  \\<IP address or host name>\print
- You may not be able to open the target MFP port via [Browse] button in OS such as Windows7, Windows Vista depending on the network environment. In this case, enter a network path shown below in [Selected printer port], and then go to step 9.
  \\<IP address or host name>\print

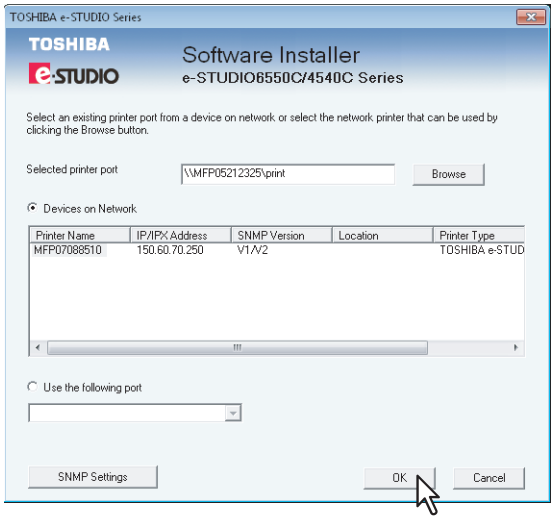
8 Select “print” for this equipment and then click [OK].



Note

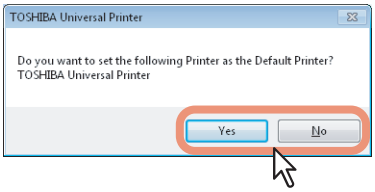
Do not select “univ” or “ps3”. Otherwise print jobs may fail.

9 Click [OK].

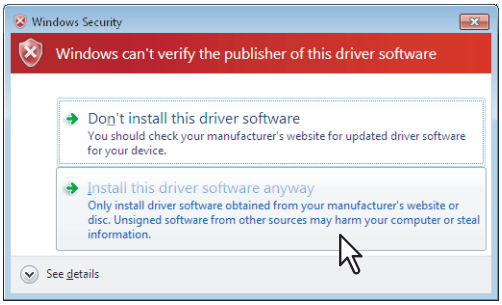


Tips

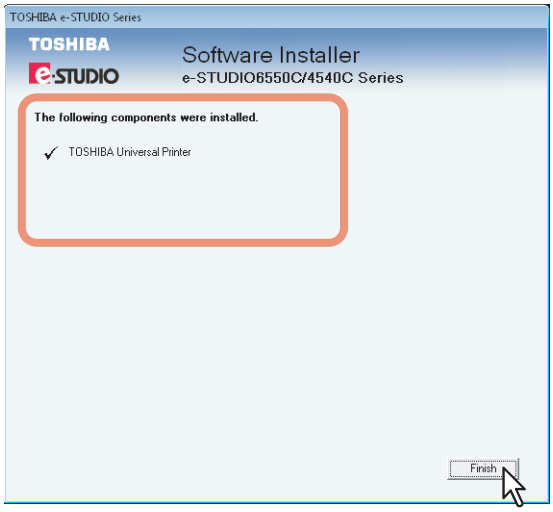
- If a dialog box prompting you to confirm the setting of a printer to be used normally appears, click [Yes] or [No].



- If the [Windows Security] dialog box appears, click [Install this driver software anyway].



10 Confirm that the installation is completed, and then click [Finish].



Tip

The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

11 Click [Exit].

When a message appears asking whether to finish the installation, click [Yes].

Note

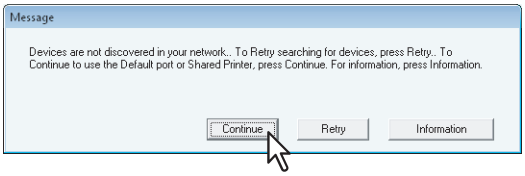
Before using the printer driver for printing, configure the installed options of the equipment and department code (if required) on the printer driver. Refer to the ***Printing Guide*** for the instructions.

❑ Novell printing

Configure the printer port for Novell printing.

Notes

- The information for connecting the NetWare print server will be required.
- If this equipment is not discovered over the network after the installation is started, a dialog box indicating this appears. Click [Continue] to continue the configuration.

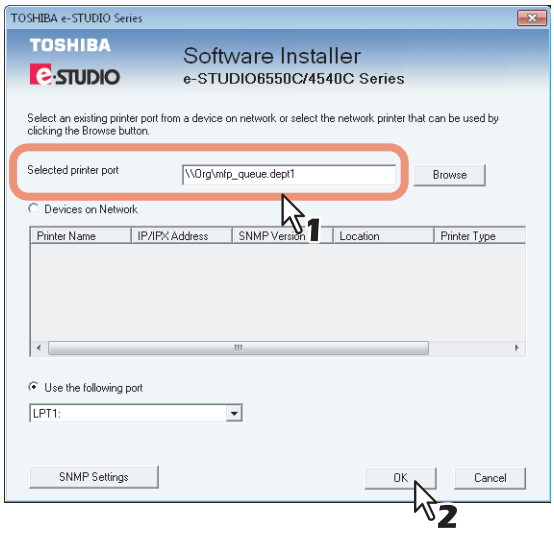


7 Enter the queue name in the [Selected printer port] box, and click [OK].

For NDS/NDPS mode

Example: Root=Org, Context=dept1, queue name=mfp_queue

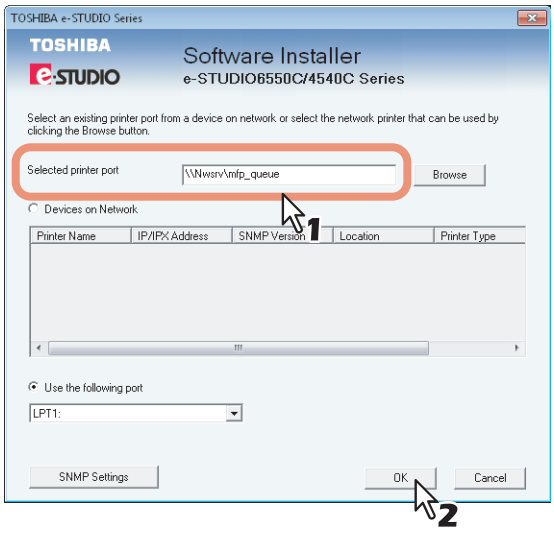
```
\\Org\mfp_queue.dept1
```



For Bindery mode

Example: NetWare print server name=Nwsrv, queue name=mfp_queue

```
\\Nwsrv\mfp_queue
```

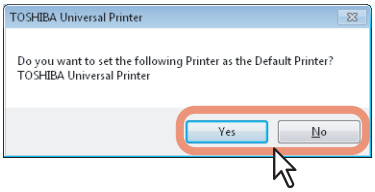


Note

The queue for this equipment should be set up by an administrator. If you do not know the queue for this equipment, ask your administrator.

Tip

If the following message appears, click [Yes] to set the indicated printer driver to be the default printer driver, or click [No] to not change the default printer driver.



8 When the installation is complete, click [Finish].

The main menu is displayed.

Note

The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

9 Click [Exit].

When a message appears asking whether to finish the installation, click [OK].

Note

Before using the printer driver for printing, configure the installed options of the equipment and department code (if required) on the printer driver. Refer to the ***Printing Guide*** for the instructions.

■ Installing the printer drivers by using the individual installers

Perform installation corresponding to your Windows computer.

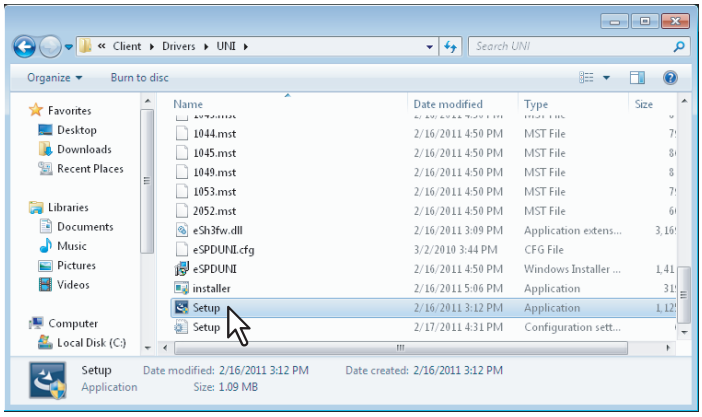
Notes

- To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.
  If Windows Vista / Windows 7 / Windows Server 2008 is used, you can perform the installation by temporarily changing the user account following the procedure below.
  - Open the folder containing the set up program for installing the preferred printer driver, and then double-click “Setup.exe”.
  - When the [User Account Control] dialog box is displayed, enter an administrator password, and then click [Yes] ([OK]).
- Even when you have logged on Windows with the “Administrator” account, the [User Account Control] dialog box may appear. In this case, click a button for allowing the operation, such as [Continue], and continue the operation.

1 Insert the Client Utilities CD-ROM into the CD-ROM drive.

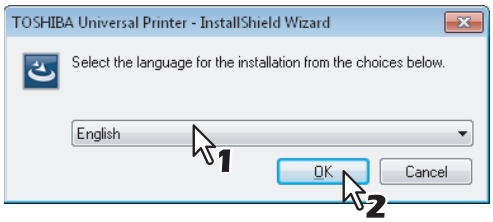
When you insert the Client Utilities CD-ROM into the CD-ROM drive, Software Installer may launch automatically. In this case, click [Exit] to close it and continue the operation.

2 Open the folder containing the set up program, and double-click “Setup.exe”.



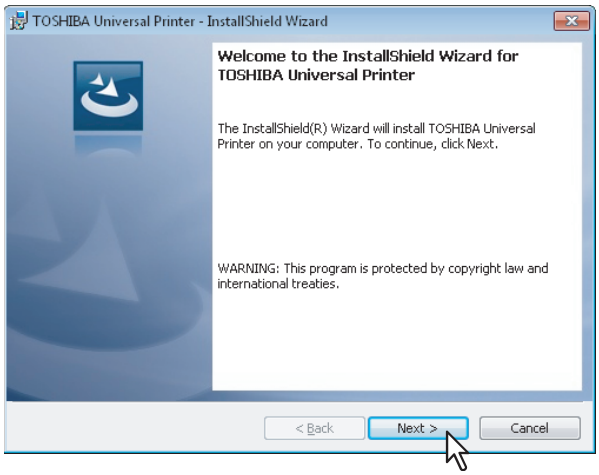
- The window for choosing the display language is displayed.
- The set up programs for installing the printer drivers are contained in the following folders:
  - Universal Printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\UNI\
  - PS3 printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\PS\
  - XPS printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\XPS\

3 Select the desired language, and click [OK].



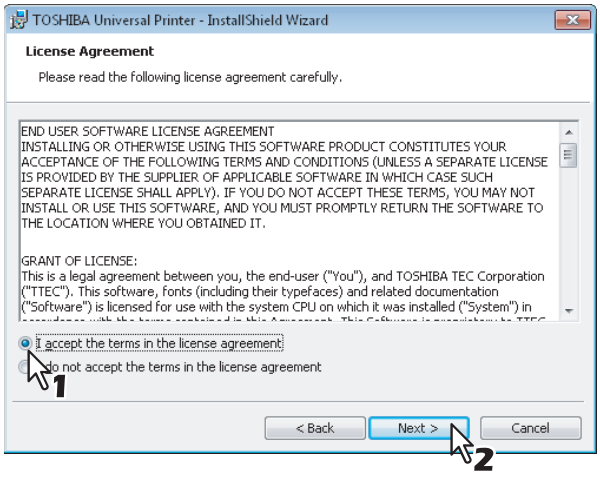
The Welcome screen is displayed.

4 Click [Next].



The License Agreement screen is displayed.

5 Select [I accept the terms in the license agreement], and click [Next].



The Select Port screen is displayed.

6 Configure the printer port.

The procedure for configuring the printer port varies depending on the connection. Go to the steps suited to your connection.

- 🕮 P.57 “Raw TCP/LPR printing”
- 🕮 P.69 “SMB printing”
- 🕮 P.73 “Novell printing”

❑ Raw TCP/LPR printing

Configure the Raw TCP/LPR port as described in the following procedure.

Note

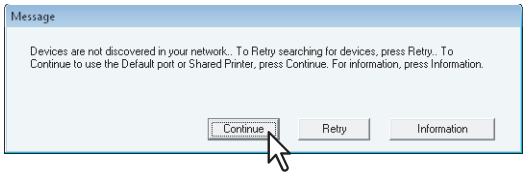
Confirm the following before starting the configuration:
- This equipment is connected to the network and turned on.
- The TCP/IP setting is correct on this equipment and your computer.

Searching your TOSHIBA MFP automatically

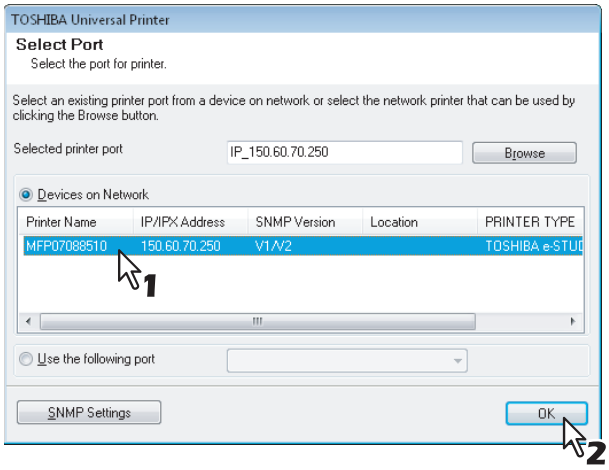
This equipment is automatically discovered over the network. Then you can install printer driver so as to configure the Raw TCP/LPR port.

Note

If this equipment is not discovered over the network after the installation is started, a dialog box indicating this appears. Follow the procedure below to continue the configuration.
- To search this equipment over the network again, click [Retry].
- Confirm the SNMP settings specified in the [SNMP Settings] dialog box.
- To select a temporary local port and then configure the Raw TCP/LPR port, click [Continue]. Then follow the procedure as described in the following page:
  📖 P.41 “If your TOSHIBA MFP is not found”



7 A list for the discovered printers is displayed. Then select this equipment on the list and then click [OK].

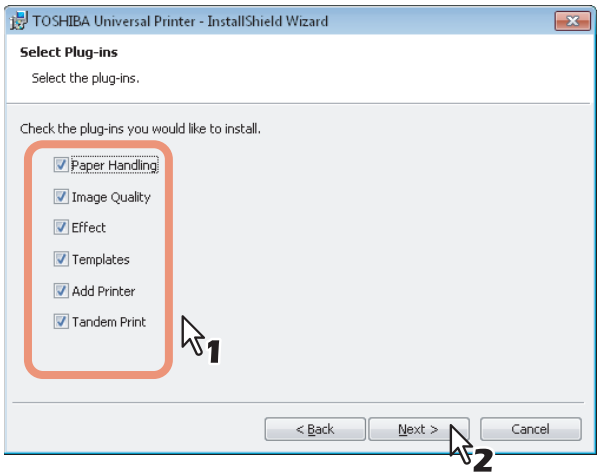


The TCP/IP port is created and the Select Plug-ins screen will be displayed.

Tips

- Searching may take a while depending on the Windows OS or network environment.
- When you want to verify and/or change the SNMP settings to find the target TOSHIBA MFPs, see step 4 in the following section:
  📖 P.26 “Procedure for Recommended Installation”

8 Confirm the plug-ins listed on the screen. If there is an unnecessary plug-in, disable it by clearing the check box, and click [Next].



You can choose whether to install the following plug-ins.

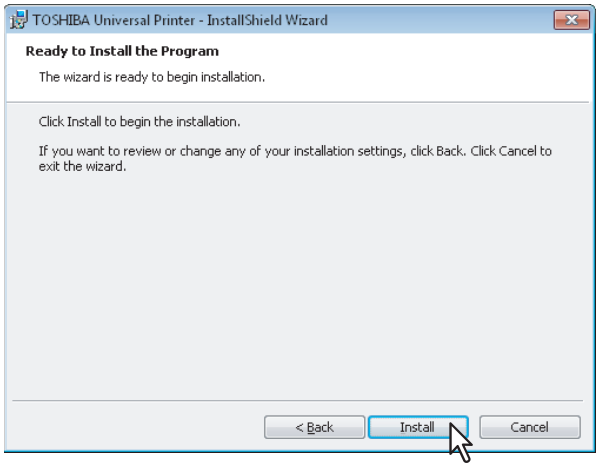
- Paper Handling tab
- Image Quality tab
- Effect tab
- Templates
- Add Printer
- Tandem Print

For details on each plug-in, refer to the ***Printing Guide***.

Tips

- When you install a printer driver from the [Recommended], [Printer Driver], or [Custom Install] menu of the Software Installer, the window to select the plug-ins will not be displayed. In this case, all the plug-ins are installed automatically.
- You can install the plug-ins separately. For instructions on how to install them, see the following page:
P.107 “Installing Plug-ins”

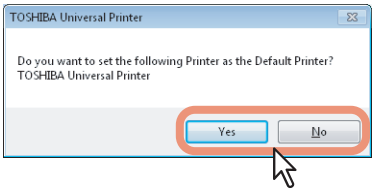
9 Click [Install].



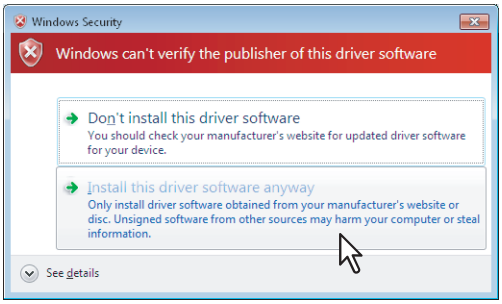
Installation starts.

Tips

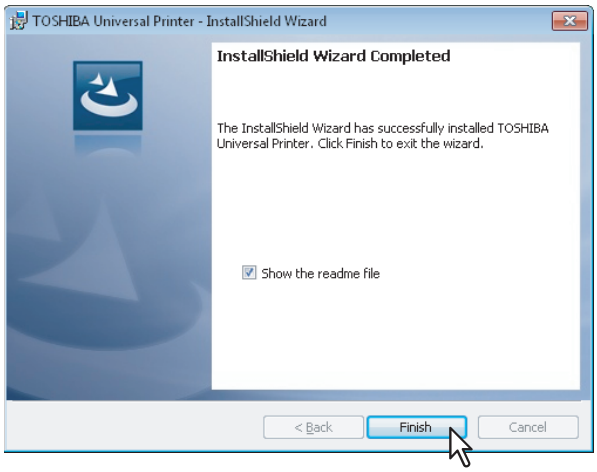
- Searching may take a while depending on the Windows OS or network environment.
- If a dialog box prompting you to confirm the setting of a printer for normal use appears, click [Yes] or [No].



- If the [Windows Security] dialog box appears, click [Install this driver software anyway].



10 Confirm that the installation is completed, and then click [Finish].



Tips

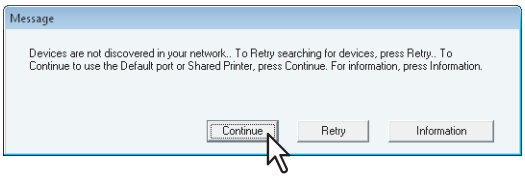
- The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.
- Before using the printer driver for printing, configure the installed options of the equipment and department code (if required) on the printer driver. Refer to the ***Printing Guide*** for the instructions.

If your TOSHIBA MFP is not found

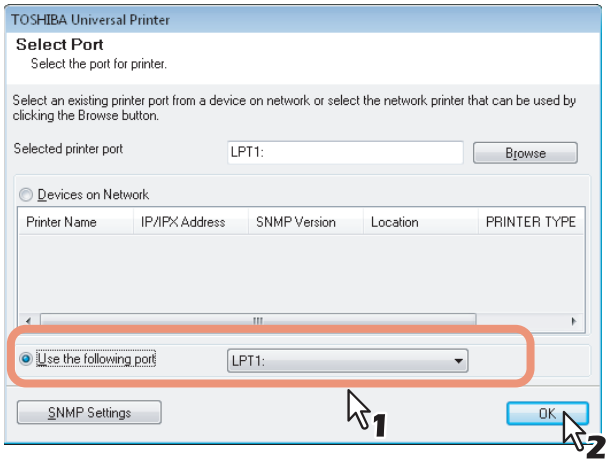
If your TOSHIBA MFP is not found, you must first install the printer driver by temporarily selecting a local port and then configuring the Raw TCP/LPR port.

Note

If this equipment is not discovered over the network after the installation is started, a dialog box indicating this appears. Click [Continue] to continue the configuration.

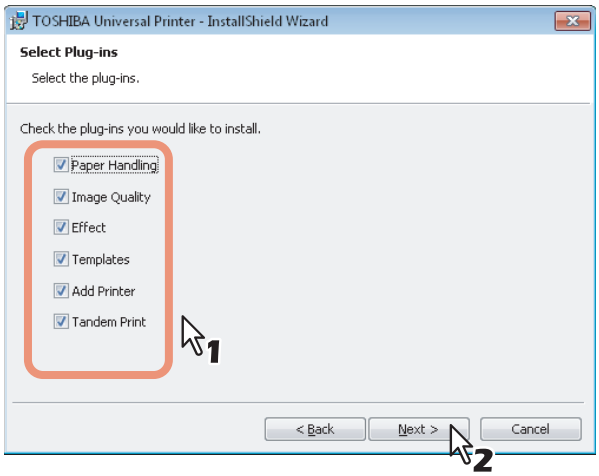


7 Select [Use the following port] and then select “LPT1: ”. Then click [OK].



The Select Plug-ins screen is displayed.

8 Confirm the plug-ins listed on the screen. If there is an unnecessary plug-in, disable it by clearing the check box, and click [Next].



You can choose whether to install the following plug-ins.

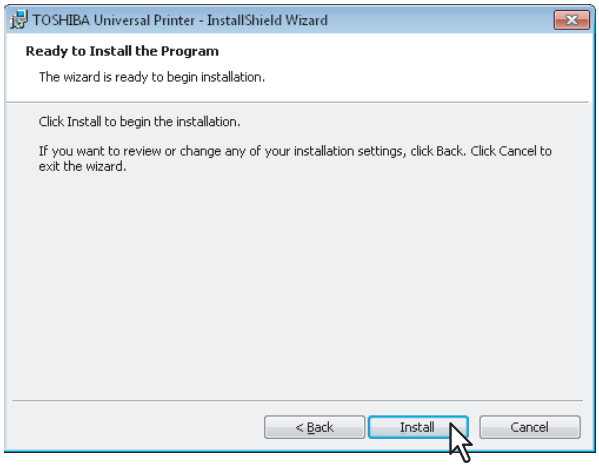
- Paper Handling tab
- Image Quality tab
- Effect tab
- Templates
- Add Printer
- Tandem Print

For details on each plug-in, refer to the ***Printing Guide***.

Tips

- When you install a printer driver from the [Recommended], [Printer Driver], or [Custom Install] menu of the Software Installer, the window to select the plug-ins will not be displayed. In this case, all the plug-ins are installed automatically.
- You can install the plug-ins separately. For instructions on how to install them, see the following page:
P.107 “Installing Plug-ins”

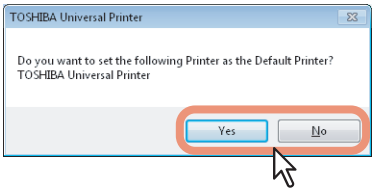
9 Click [Install].



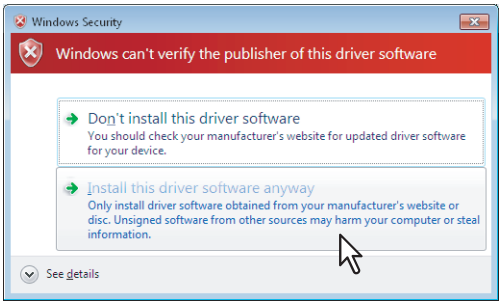
Installation starts.

Tips

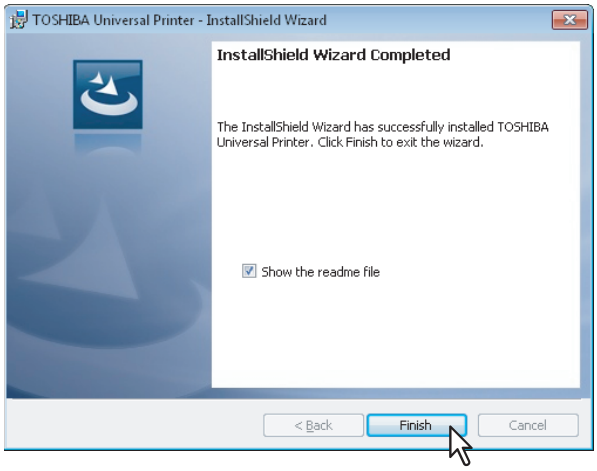
- If a dialog box prompting you to confirm the setting of a printer for normal use appears, click [Yes] or [No].



- If the [Windows Security] dialog box appears, click [Install this driver software anyway].



10 Confirm that the installation is completed, and then click [Finish].

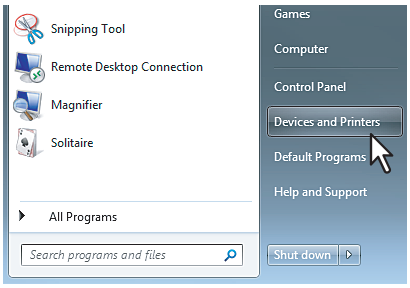


Tip

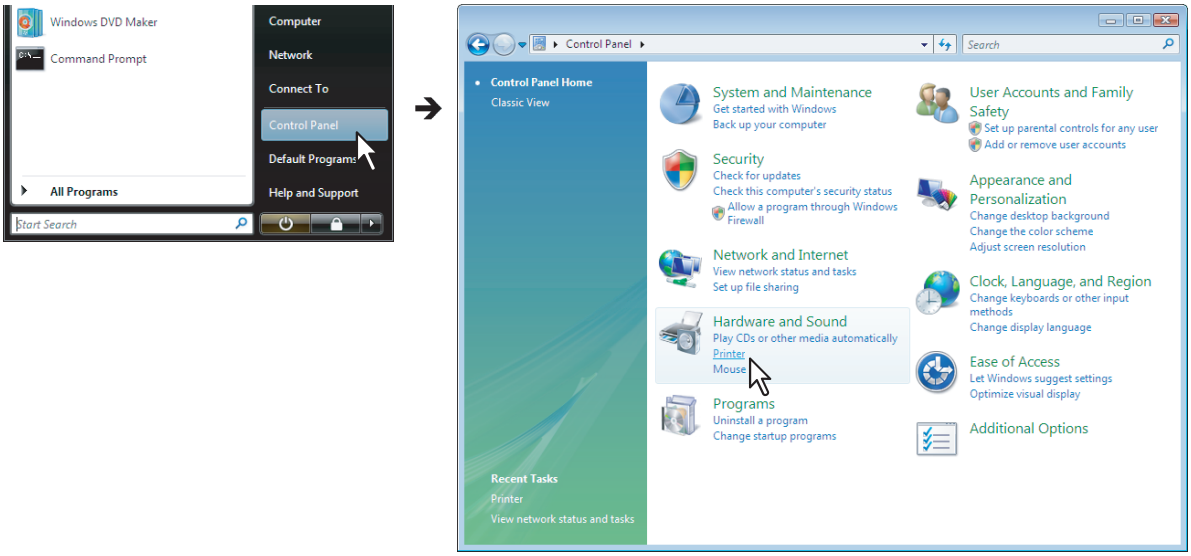
The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

11 Open the printers folder.

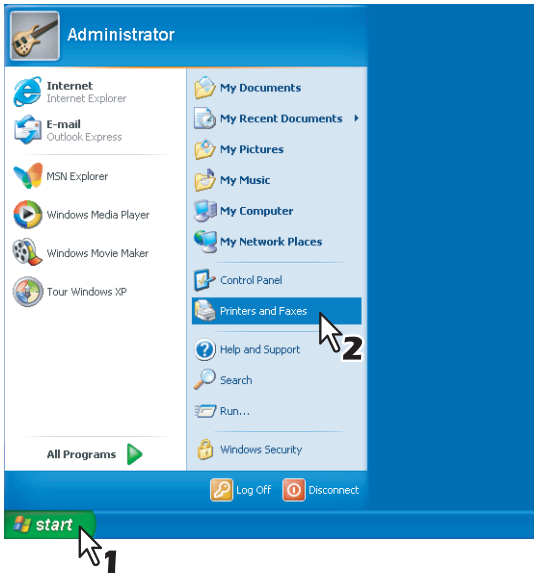
- When you are using Windows 7
  Click [Start] and click [Devices and Printers] to open the [Devices and Printers] folder.



- When you are using Windows Vista / Windows 2008 Server
  Click the start button, select [Control Panel] and click [Printer] under [Hardware and Sound] to open the [Printers] folder.

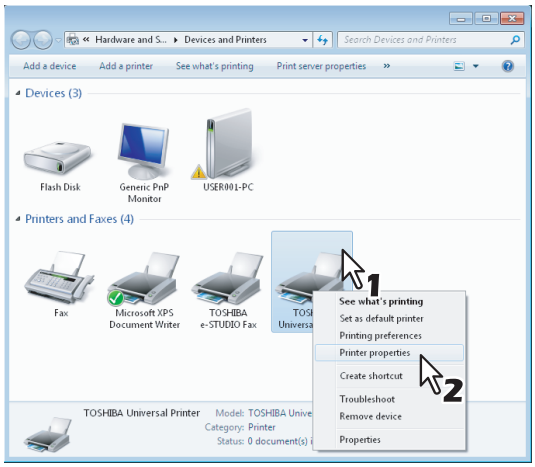


- When you are using Windows XP / Windows 2003 Server
  Click [Start] and click [Printers and Faxes] to open the [Printers and Faxes] folder.

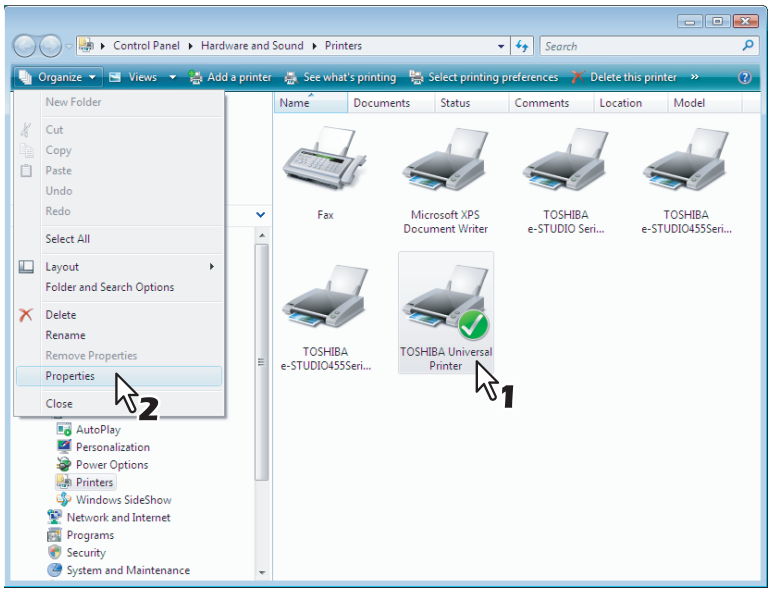


12 Open the printer driver properties dialog box.

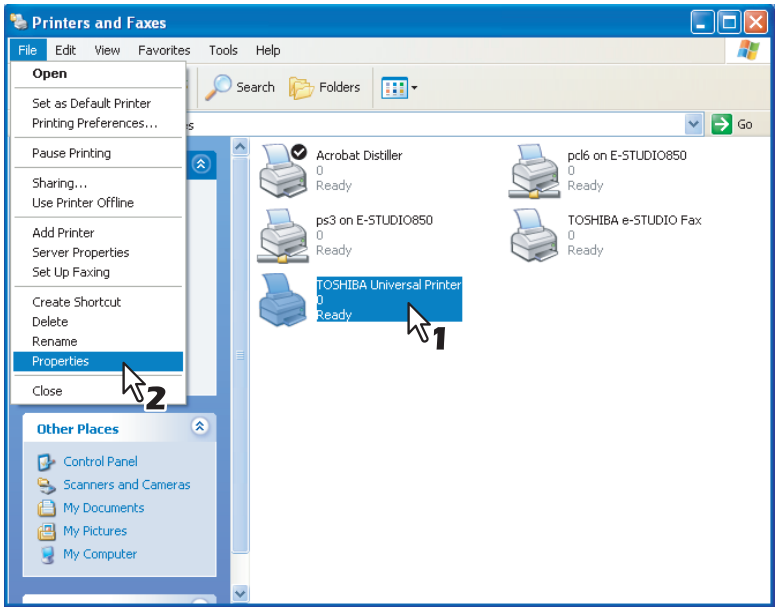
- When you are using Windows 7
  Select the installed printer driver and right-click to make the menu appear, then click [Printer properties].



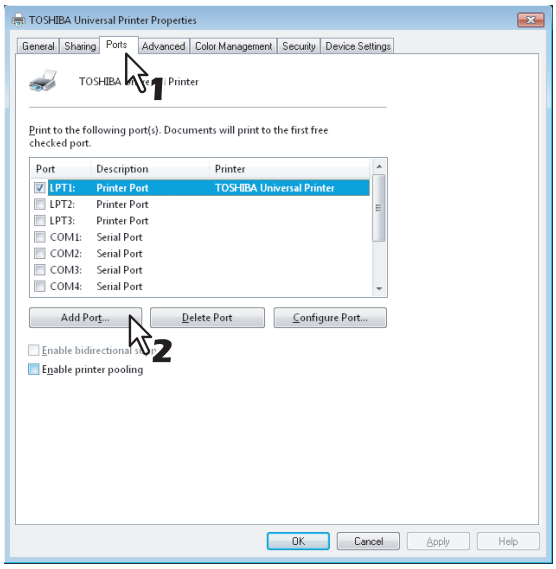
- When using Windows Vista / Windows Server 2008
  Select the installed printer driver. Click [Organize] and then [Properties].



- When using Windows XP / Windows Server 2003
  Select the installed printer driver, and select [Properties] in the [File] menu.

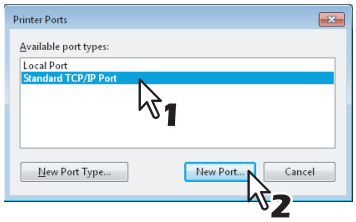


13 Click the [Ports] tab and click [Add Port].



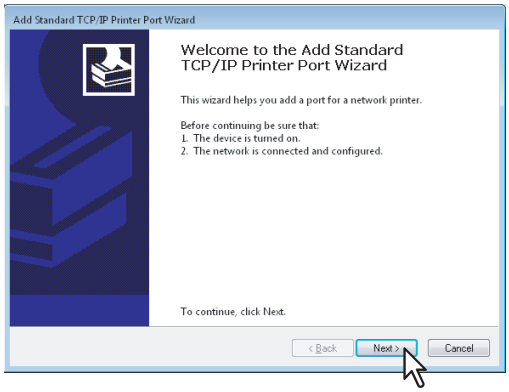
The [Printer Ports] dialog box appears.

14 Select [Standard TCP/IP Port] and click [New Port].

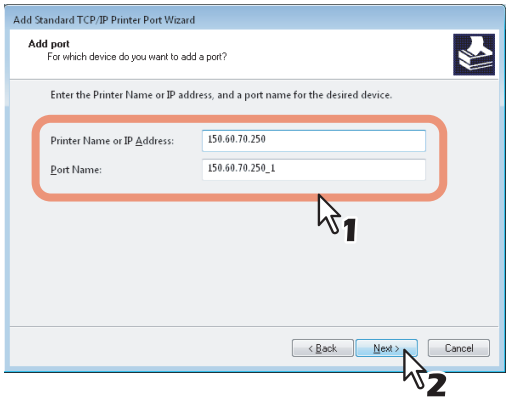


The [Add Standard TCP/IP Printer Port Wizard] dialog box appears.

15 Click [Next].



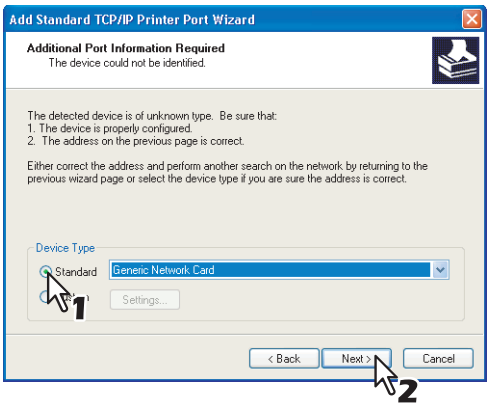
16 Enter the IP address of this equipment in the [Printer Name or IP Address] box and click [Next].



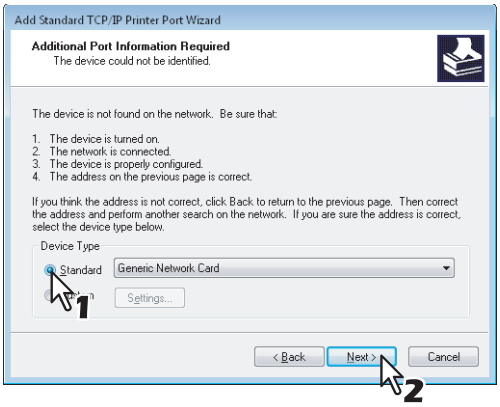
- If your network uses a DNS or WINS server, enter the printer name of this equipment provided from DNS or WINS in the [Printer Name or IP Address] box.
- In the [Port Name] box, the port name is automatically entered according to the IP address or DNS name entered in the [Printer Name or IP Address] box. When installing on Windows XP / Windows Server 2003, “IP_” is added in front of the IP address that is displayed in the [Port Name] box.
- Enter the IPv6 address in the [Printer Name or IP Address] box when the MFP is connected in an IPv6 network.

Tips

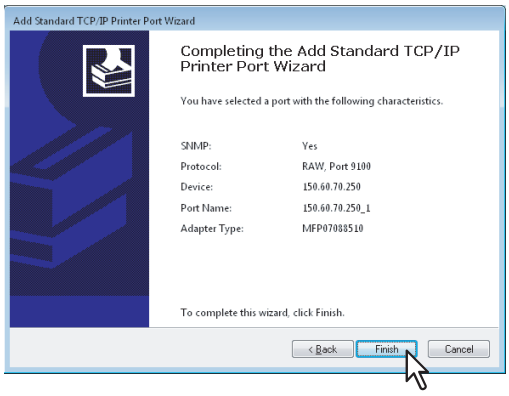
- When the following dialog box is displayed on Windows XP / Windows Server 2003, select [Standard] and click [Next].



- When the following dialog box is displayed on Windows Vista / Windows 7 / Windows Server 2008, select [Standard] and click [Next].

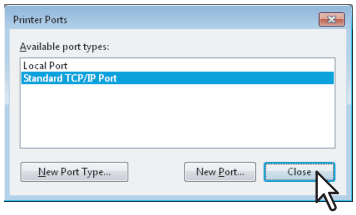


17 Click [Finish].

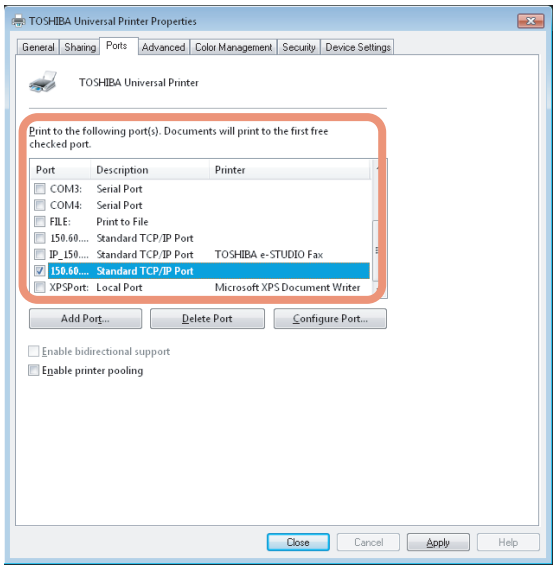


The screen returns to the [Printer Ports] dialog box.

18 Click [Close] to close the [Printer Ports] dialog box.



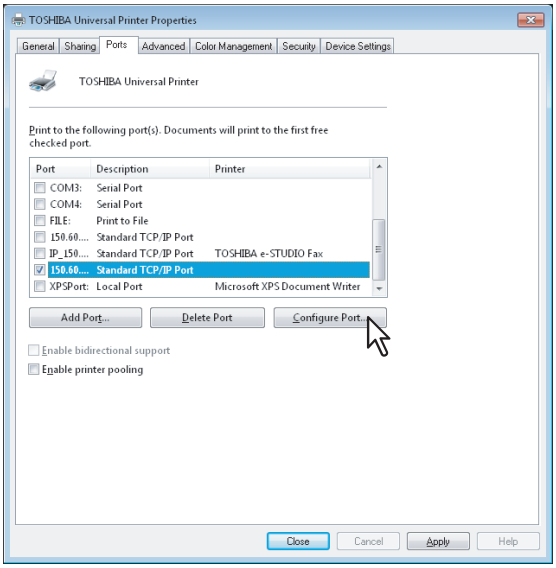
19 Make sure the created Raw TCP or LPR port is checked in the [Print to the following port(s)] list.



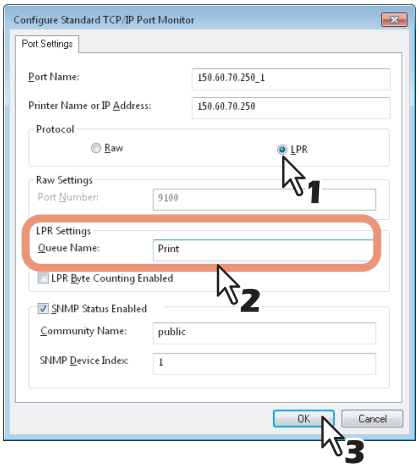
Tip

When the LPD Print setting is enabled, you can also configure LPR printing. When you want to configure LPR printing, follow the procedure below.

1. Click [Configure Port].

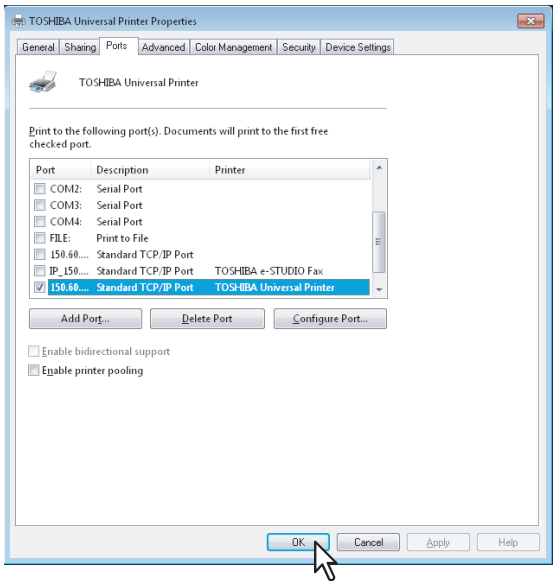


2. Select [LPR] at the [Protocol] group, enter “print” in the [Queue Name] box at the [LPR Settings] group, and then click [OK].



20 **Click [Apply].**

21 **Click [OK] to save the setting.**



Note

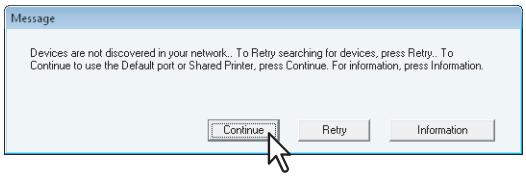
Before using the printer driver for printing, configure the installed options of the equipment and department code (if required) on the printer driver. Refer to the ***Printing Guide*** for the instructions.

❑ SMB printing

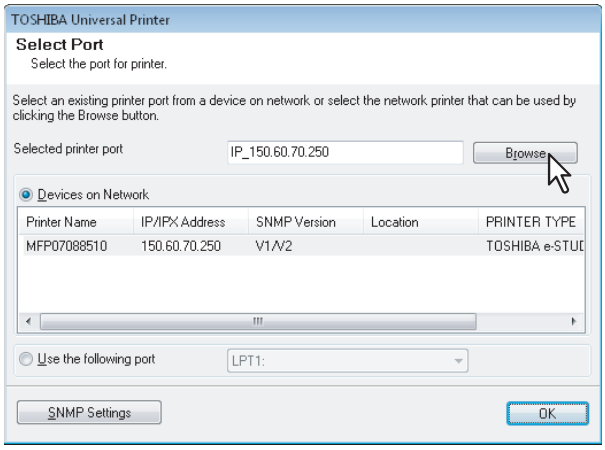
Install a printer driver by specifying the SMB port manually.

Notes

- It assumes using SMB printing in a small network. If you can use Windows XP, Windows Vista, Windows 7, Windows Server 2003, or Windows Server 2008 as a print server, it is recommended to set up for printing via Windows print server.
- Before starting the configuration, make sure that this equipment is connected to a network and also that its power is turned ON.
- If this equipment is not discovered over the network after the installation is started, a dialog box indicating this appears. Click [Continue] to continue the configuration.



7 Click [Browse].

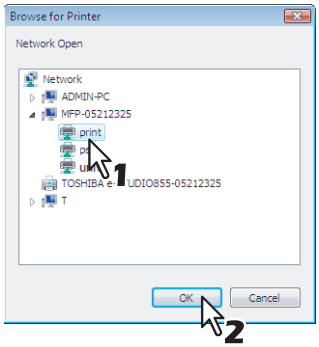


The [Browse for Printer] dialog box appears.

Tips

- If you know the IP address or the host name of this equipment, you can specify a printer port with the direct entry from the keyboard instead of clicking [Browse]. Enter a network path shown below in [Selected printer port], and then go to step 9.
  \\<IP address or host name>\print
- You may not be able to open the target MFP port via [Browse] button in OS such as Windows7, Windows Vista depending on the network environment. In this case, enter a network path shown below in [Selected printer port], and then go to step 9.
  \\<IP address or host name>\print

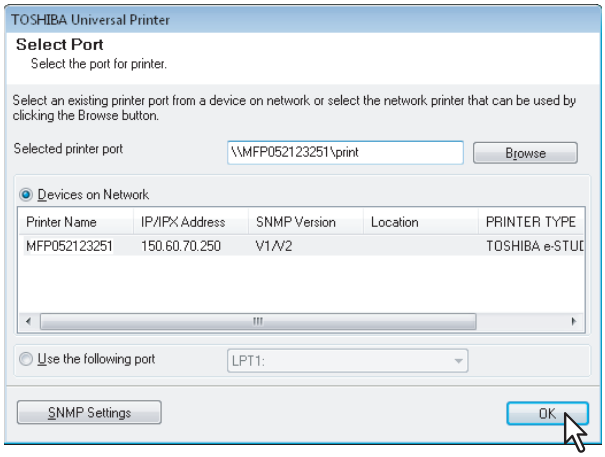
8 Select “print” for this equipment and then click [OK].



Note

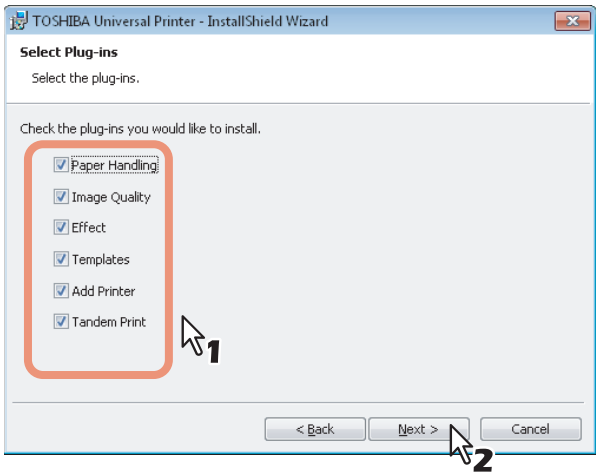
Do not select “univ” or “ps3”. Otherwise print jobs may fail.

9 Click [OK].



The Select Plug-ins screen is displayed.

10 Confirm the plug-ins listed on the screen. If there is an unnecessary plug-in, disable it by clearing the check box, and click [Next].



You can choose whether to install the following plug-ins.

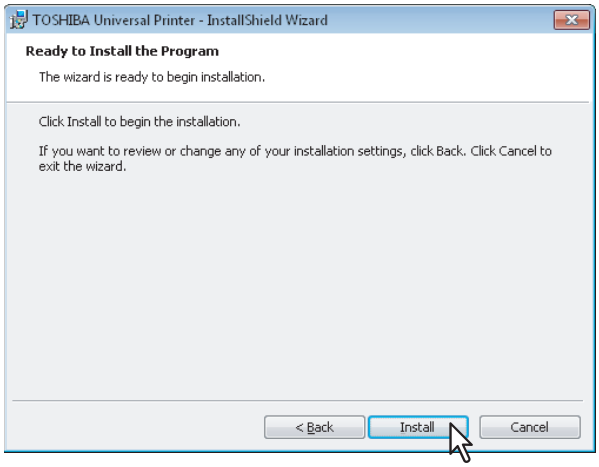
- Paper Handling tab
- Image Quality tab
- Effect tab
- Templates
- Add Printer
- Tandem Print

For details on each plug-in, refer to the ***Printing Guide***.

Tips

- When you install a printer driver from the [Recommended], [Printer Driver], or [Custom Install] menu of the Software Installer, the window to select the plug-ins will not be displayed. In this case, all the plug-ins are installed automatically.
- You can install the plug-ins separately. For instructions on how to install them, see the following page:
P.107 “Installing Plug-ins”

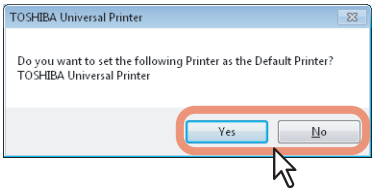
11 Click [Install].



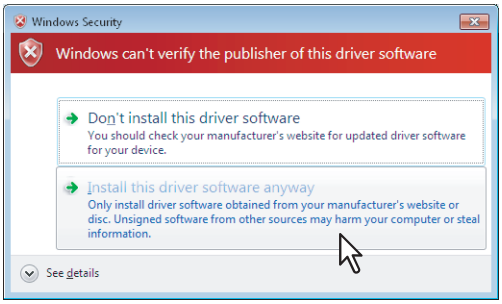
Installation starts.

Tips

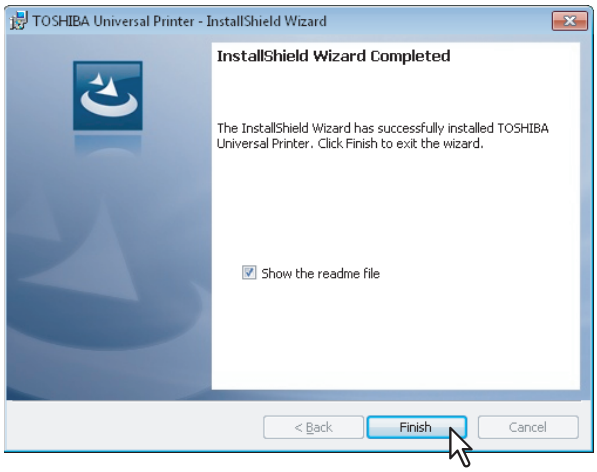
- Searching may take a while depending on the Windows OS or network environment.
- If a dialog box prompting you to confirm the setting of a printer for normal use appears, click [Yes] or [No].



- If the [Windows Security] dialog box appears, click [Install this driver software anyway].



12 Confirm that the installation is completed, and then click [Finish].



Tips

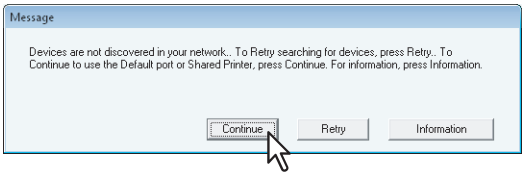
- The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.
- Before using the printer driver for printing, configure the installed options of the equipment and department code (if required) on the printer driver. Refer to the ***Printing Guide*** for the instructions.

❑ Novell printing

Configure the printer port for Novell printing.

Notes

- The information for connecting the NetWare print server will be required.
- If this equipment is not discovered over the network after the installation is started, a dialog box indicating this appears. Click [Continue] to continue the configuration.

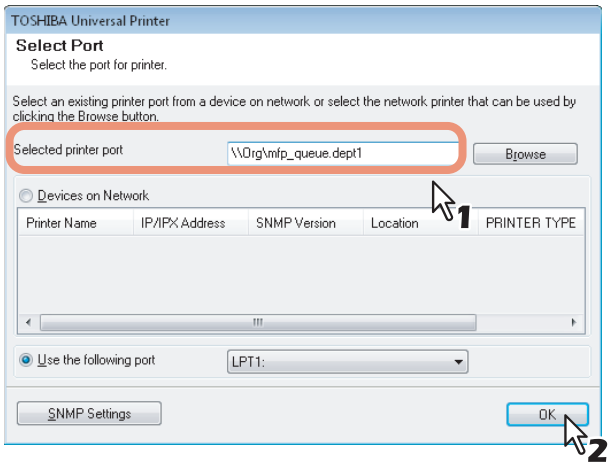


7 Enter the queue name in the [Selected printer port] box, and click [OK].

For NDS/NDPS mode

Example: Root=Org, Context=dept1, queue name=mfp_queue

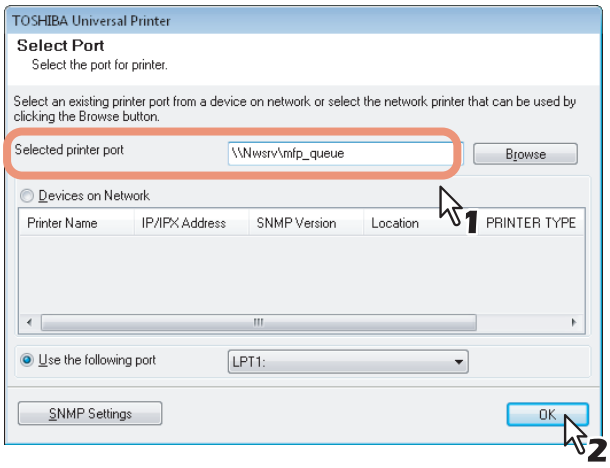
```
\\Org\mfp_queue.dept1
```



For Bindery mode

Example: NetWare print server name=Nwsrv, queue name=mfp_queue

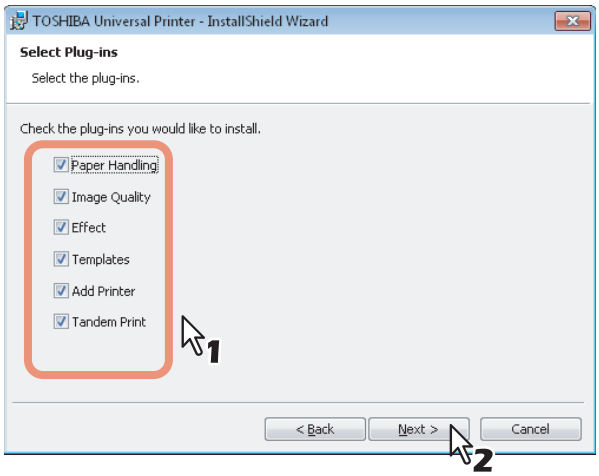
```
\\Nwsrv\mfp_queue
```



Note

The queue for this equipment should be set up by an administrator. If you do not know the queue for this equipment, ask your administrator.

8 Confirm the plug-ins listed on the screen. If there is an unnecessary plug-in, disable it by clearing the check box, and click [Next].



You can choose whether to install the following plug-ins.

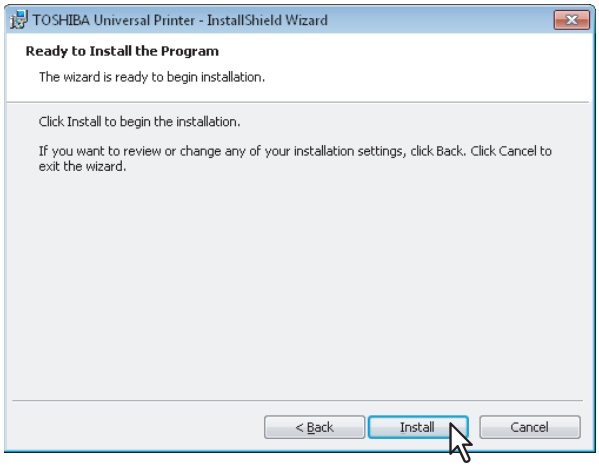
- Paper Handling tab
- Image Quality tab
- Effect tab
- Templates
- Add Printer
- Tandem Print

For details on each plug-in, refer to the ***Printing Guide***.

Tips

- When you install a printer driver from the [Recommended], [Printer Driver], or [Custom Install] menu of the Software Installer, the window to select the plug-ins will not be displayed. In this case, all the plug-ins are installed automatically.
- You can install the plug-ins separately. For instructions on how to install them, see the following page:
P.107 “Installing Plug-ins”

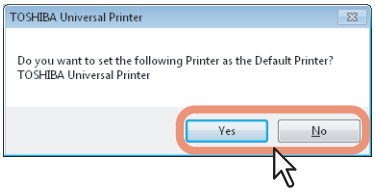
9 Click [Install].



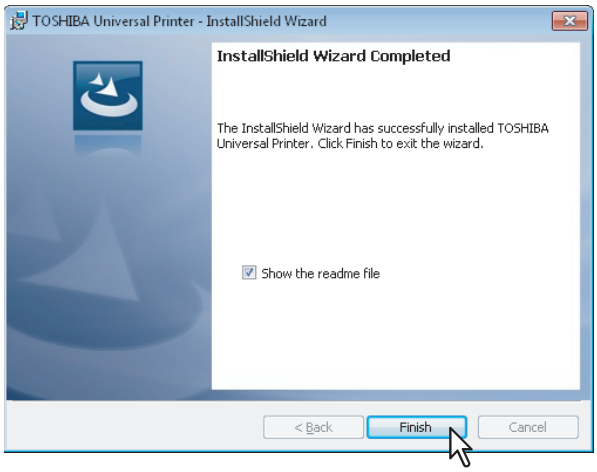
Installation starts.

Tip

If a dialog box prompting you to confirm the setting of a printer for normal use appears, click [Yes] or [No].



10 Confirm that the installation is completed, and then click [Finish].



Tips

- The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.
- Before using the printer driver for printing, configure the installed options of the equipment and department code (if required) on the printer driver. Refer to the ***Printing Guide*** for the instructions.

Other Installations

The following printing environments cannot be configured by installation using Software Installer or the individual installers contained in the Client Utilities CD-ROM (except USB printing in Windows 7). When you want to configure the following printing environments, see the following pages for each procedure.

📖 P.76 “USB printing”
📖 P.87 “Point and Print”
📖 P.89 “IPP printing”
📖 P.100 “Novell iPrint”
📖 P.101 “Web Service Print”

■ USB printing

This section describes how to set up the printer drivers when this equipment is connected with a USB cable on Windows XP / Windows Vista / Windows 7 / Windows Server 2003 / Windows Server 2008.
The procedure to install the printer driver for USB printing differs depending on the version of Windows used.

📖 P.76 “Windows 7”
📖 P.81 “Windows Vista / Windows Server 2008”
📖 P.84 “Windows XP / Windows Server 2003”

Notes

- Use a USB2.0 Hi-Speed certified cable: USB cable supporting the USB2.0 Hi-Speed mode (480 Mbps of transfer speed) certified by the USB Implementers Forum.
- Connect the equipment with a PC directly by the USB cable. When it is connected with a PC via a USB hub, the equipment may not be recognized.

❑ Windows 7

You can install a printer driver for USB printing in Windows 7 by using Software Installer contained in the Client Utilities CD-ROM.

Notes

- To perform installation, you must log onto Windows with the “Administrator” account. However, even if you have logged on with a user account other than “Administrator”, entering an administrator password upon display of the [User Account Control] dialog box enables you to perform the installation by temporarily changing the user account.
- Even when you have logged on Windows with the “Administrator” account, the [User Account Control] dialog box may appear. In this case, click a button for allowing the operation, such as [Continue], and continue the operation.

1 Power on this equipment and your computer.

2 Connect the USB cable to this equipment and your computer.

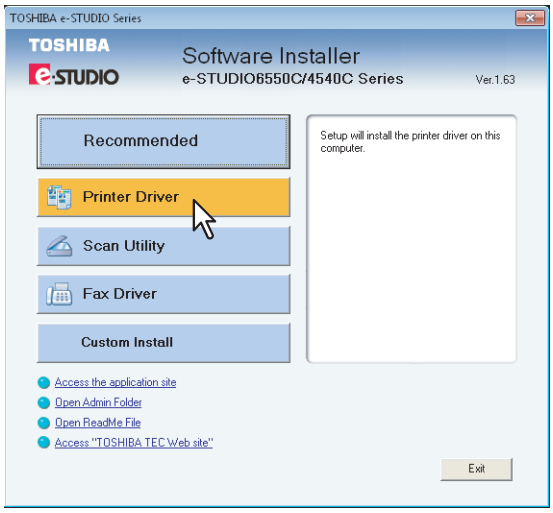
3 Insert the Client Utilities CD-ROM into the CD-ROM drive.

If Software Installer does not automatically start, use the Explorer to open the “e-STUDIO” folder in the Client Utilities CD-ROM and double-click “Setup.exe”.

4 Select [I agree to the terms of the License Agreement.] and click [Next].

- To change the display language, select a desired language from the [Select Language] box.
- The main menu is displayed.

5 Click [Printer Driver] or [Custom Install].

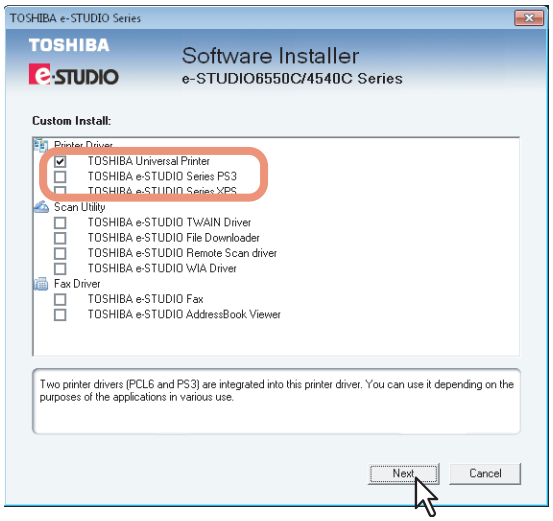


Printer Driver — This option allows you to install only the Universal Printer driver. When you select it, proceed to step 7.
Custom Install — This option allows you to select the printer drivers and utilities which you want to install. When you select it, proceed to step 6.

Note

When you want to install the PS3 printer driver and XPS printer driver, perform installation from [Custom Install] or by using the individual installers.
📖 P.55 “Installing the printer drivers by using the individual installers”

6 When you have selected [Custom Install] in step 5, select the software items which you want to install, and then click [Next].



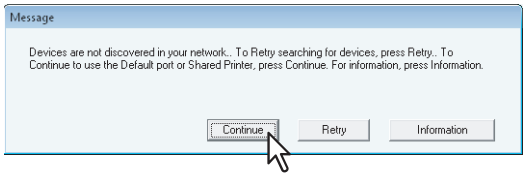
You can install the following printer drivers:

- TOSHIBA Universal Printer
- TOSHIBA e-STUDIO Series PS3
- TOSHIBA e-STUDIO Series XPS

7 Confirm the list of the software to install and click [Install].

Installation starts.

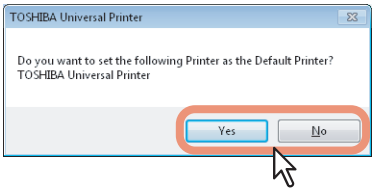
8 Since the result message of the detection is displayed, click [Continue].



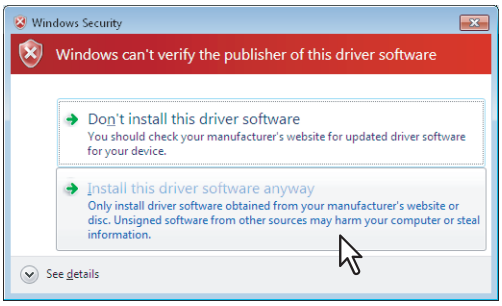
9 Select [Use the following port] and “USBxxx” (xxx are numbers). Then click [OK].

Tips

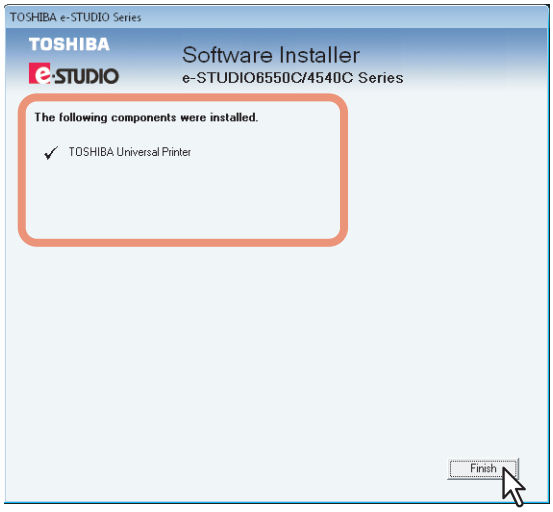
- If a dialog box prompting you to confirm the setting of a printer for normal use appears, click [Yes] or [No].



- If the [Windows Security] dialog box appears, click [Install this driver software anyway].



10 Confirm that the installation is completed, and then click [Finish].



Tip

The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

11 Click [Exit].

When a message appears asking whether to finish the installation, click [Yes].

Note

Before using the printer driver for printing, configure the installed options of the equipment and department code (if required) on the printer driver. Refer to the ***Printing Guide*** for the instructions.

❑ Windows Vista / Windows Server 2008

You can install a printer driver for USB printing in Windows Vista / Windows Server 2008 by Plug and Play.

Notes

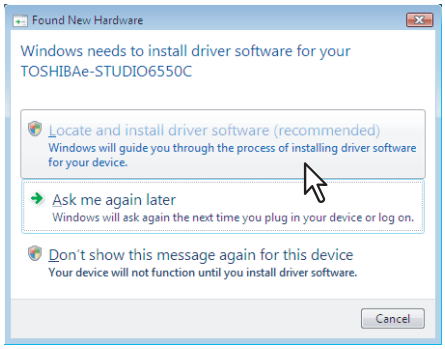
- To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software. However, if you have logged on with a user account other than “Administrator”, entering an administrator password upon display of the [User Account Control] dialog box enables you to perform the installation by temporarily changing the user account.
- Even when you have logged on Windows with the “Administrator” account, the [User Account Control] dialog box may appear. In this case, click a button for allowing the operation, such as [Continue], and continue the operation.

1 Power on this equipment and your computer.

2 Connect the USB cable to this equipment and your computer.

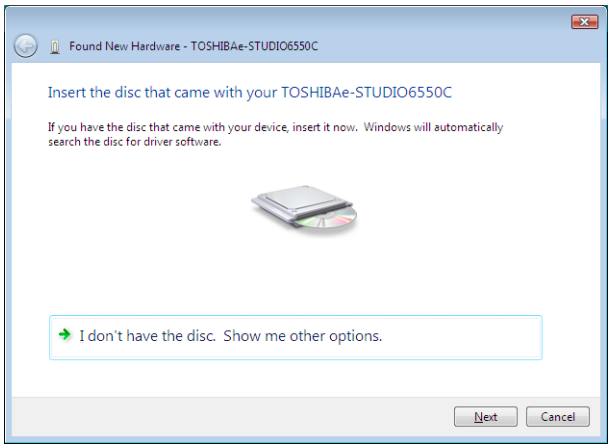
The [Found New Hardware] dialog box appears.

3 Click [Locate and install driver software (recommended)].



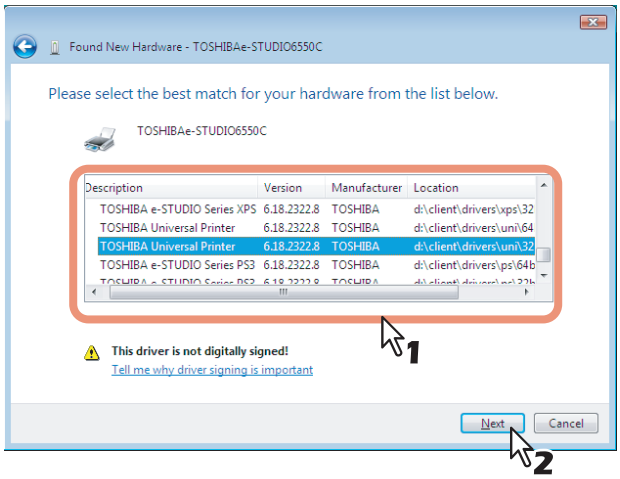
When the confirmation dialog box for online search is displayed, click [Don’t search online].

4 Insert the Client Utilities CD-ROM into the CD-ROM drive.



When you insert the Client Utilities CD-ROM into the CD-ROM drive, Software Installer may launch automatically. In this case, click [Exit] to close it and continue the operation.

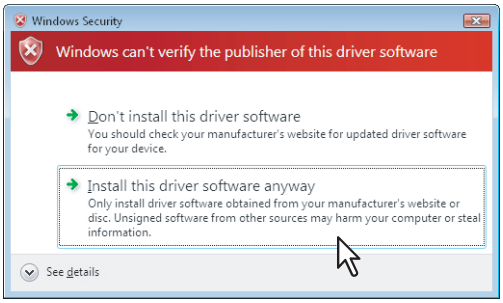
5 The printer drives are automatically detected and displayed in the list. Select a printer driver to be installed and click [Next].



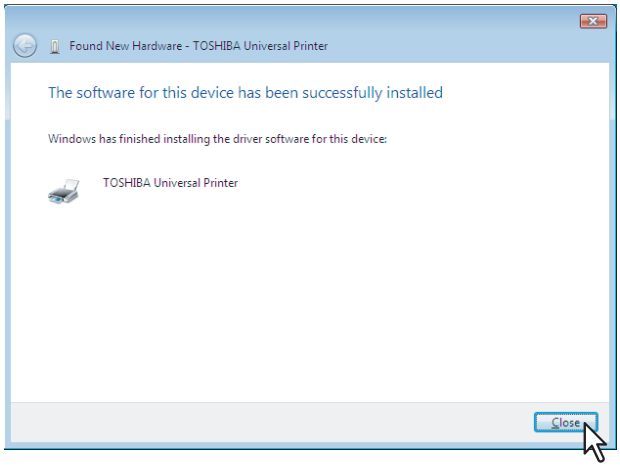
Notes

- All available drivers are listed. If a wrong driver is installed, printing may not be performed properly.
  When using the Windows computer 32-bit edition, select the following folder:
  - Universal Printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\UNI\32bit
  - PS3 printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\PS\32bit
  - XPS printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\XPS\32bit

  When using the Windows computer 64-bit edition, select the following folder:
  - Universal Printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\UNI\64bit
  - PS3 printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\PS\64bit
  - XPS printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\XPS\64bit
- If the following message appears, click [Install this driver software anyway] to proceed with the installation.



6 Click [Close].



7 The installation is completed.

Note

Before using the printer driver for printing, configure the installed options of the equipment and department code (if required) on the printer driver. Refer to the ***Printing Guide*** for the instructions.

❑ Windows XP / Windows Server 2003

You can install a printer driver for USB printing in Windows XP / Windows Server 2003 by Plug and Play.

Note

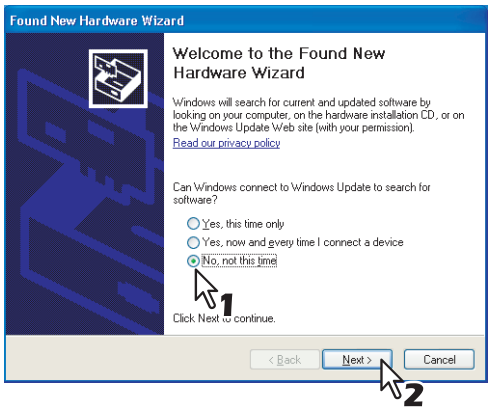
To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.

1 Power on this equipment and your computer.

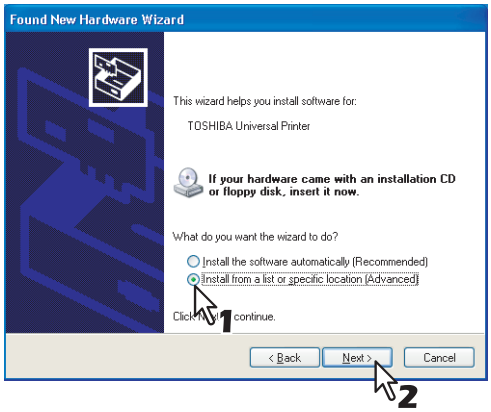
2 Connect the USB cable to this equipment and your computer.

The [Found New Hardware Wizard] dialog box appears.

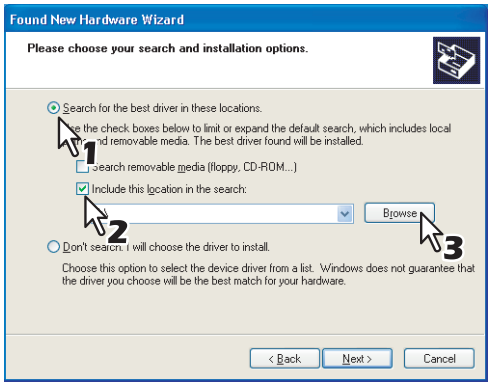
3 Select [No, not this time] and click [Next].



4 Select [Install from a list or specific location (Advanced)] and click [Next].



5 Select [Search for the best driver in these locations.] and select only the [Include this location in the search] check box. Then click [Browse].

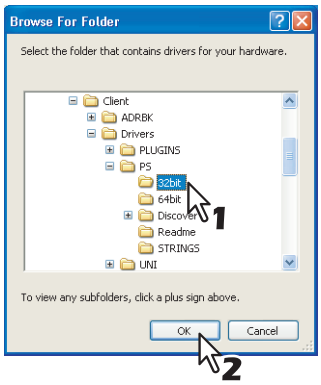


The [Browse For Folder] dialog box appears.

6 Insert the Client Utilities CD-ROM into the CD-ROM drive.

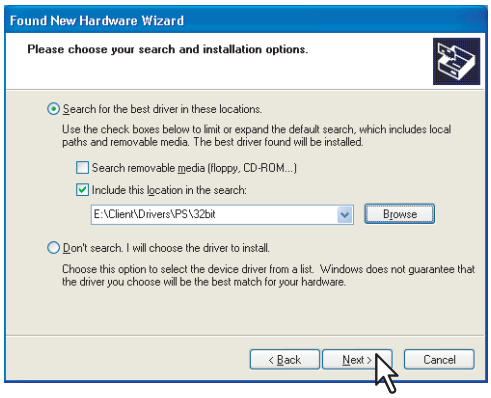
When you insert the Client Utilities CD-ROM into the CD-ROM drive, Software Installer may launch automatically. In this case, click [Exit] to close it and continue the operation.

7 Locate the directory where the printer driver is located and click [OK].



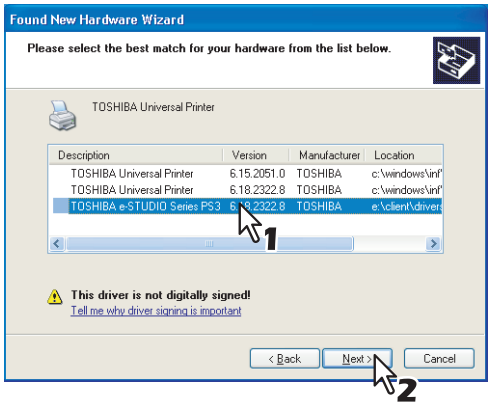
- When using the Windows computer 32-bit edition, select the following folder:
  - Universal Printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\UNI\32bit
  - PS3 printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\PS\32bit
  - XPS printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\XPS\32bit
- When using the Windows computer 64-bit edition, select the following folder:
  - Universal Printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\UNI\64bit
  - PS3 printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\PS\64bit
  - XPS printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\XPS\64bit

8 Click [Next].

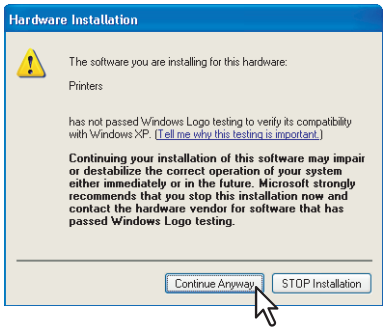


The screen for choosing the printer driver is displayed.

9 Select the printer driver to be installed, and click [Next].

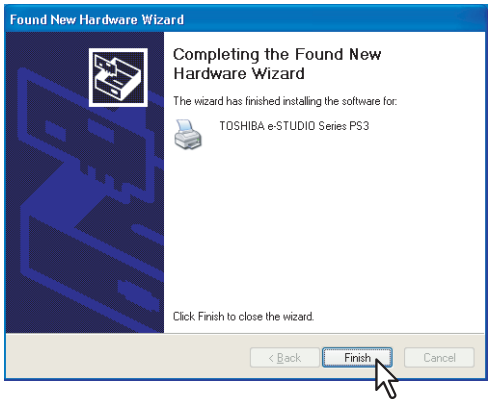


- If the following message appears, click [Continue Anyway] to proceed with the installation.



- It starts copying files.

10 Click [Finish].



11 The installation is completed.

Note

Before using the printer driver for printing, configure the installed options of the equipment and department code (if required) on the printer driver. Refer to the ***Printing Guide*** for the instructions.

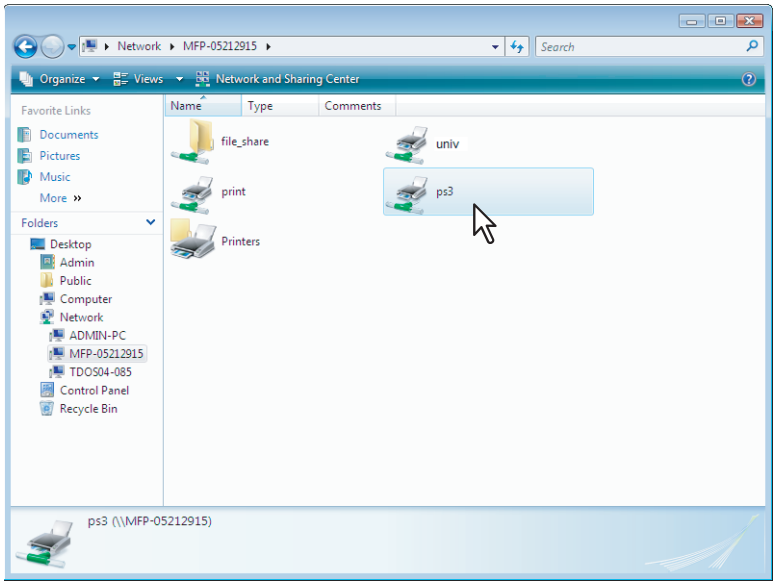
■ Point and Print

This section describes how to set up the printer drivers by Point and Print.
Perform installation corresponding to your Windows computer.

Notes

- It assumes using SMB printing by Point and Print in a small network. If you can use Windows XP, Windows Vista, Windows 7, Windows Server 2003, or Windows Server 2008 as a print server, it is recommended to set up for printing via Windows print server.
- For installing the printer driver by Point and Print, the printer driver files for Point and Print must be uploaded in the TOSHIBA MFP. The printer driver files can be uploaded in the TOSHIBA MFP using the administrative function of TopAccess. For more information about Point and Print, ask your network administrator.
- To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software. However, if you have logged onto Windows Vista / Windows 7 / Windows Server 2008 with a user account other than “Administrator”, entering an administrator password upon display of the [User Account Control] dialog box enables you to perform the installation by temporarily changing the user account.
- Even when you have logged on Windows with the “Administrator” account, the [User Account Control] dialog box may appear. In this case, click a button for allowing the operation, such as [Continue], and continue the operation.

1 Open this equipment in the network with Windows Explorer, and double-click a queue in which the printer driver should be installed (see below).



univ — Double-click this queue to install the Universal Printer driver.
ps3 — Double-click this queue to install the PS3 printer driver.

Notes

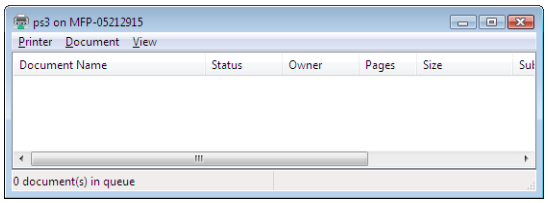
- The XPS printer driver cannot be installed using Point and Print from this equipment.
- Configure the SMB settings and the NetBIOS name on TopAccess when using the computer name of the MFP.
  - In an IPv4 environment:
    Configure the WINS server addresses and DNS settings on TopAccess.
  - In an IPv6 environment:
    Enable the LLMNR setting or configure the DNS settings on TopAccess.

  For instructions on how to set them on TopAccess, refer to ***TopAccess Guide***.

Tips

- When you are installing the printer driver on Windows Vista / Windows 7 / Windows Server 2008, the [Printers] dialog box asking you whether to install it may appear. In that case, click [Install driver].
- When you are installing the printer driver on Windows XP / Windows Server 2003, the [Connect to Printer] dialog box asking you whether to install it may appear. In that case, click [Yes].

2 The printer driver is installed and the print queue window appears.



Note

Before using the printer driver for printing, configure the installed options of the equipment and department code (if required) on the printer driver. Refer to the ***Printing Guide*** for the instructions.

■ IPP printing

This section describes how to set up the printer drivers for IPP printing which is available for Internet connection.
To set up the printer drivers for IPP printing, install the printer drivers by Add Printer Wizard.

Tip

Before installing the printer driver for IPP printing, check with your system administrator to make sure of the following:
- This equipment is connected to the network and turned on.
- The TCP/IP setting is correct on this equipment and your computer.

The procedure to install the printer driver for IPP printing differs depending on the version of Windows used.
📖 P.89 “Windows Vista / Windows 7 / Windows Server 2008”
📖 P.95 “Windows XP / Windows Server 2003”

❑ Windows Vista / Windows 7 / Windows Server 2008

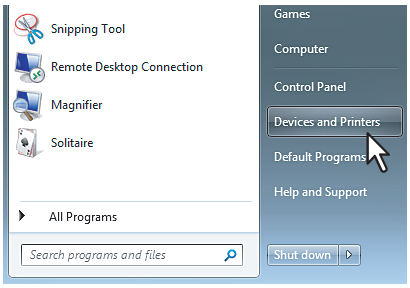
You can install a printer driver for IPP printing in Windows Vista / Windows 7 / Windows Server 2008 using the Add Printer Wizard.
Perform installation corresponding to your Windows computer.

Notes

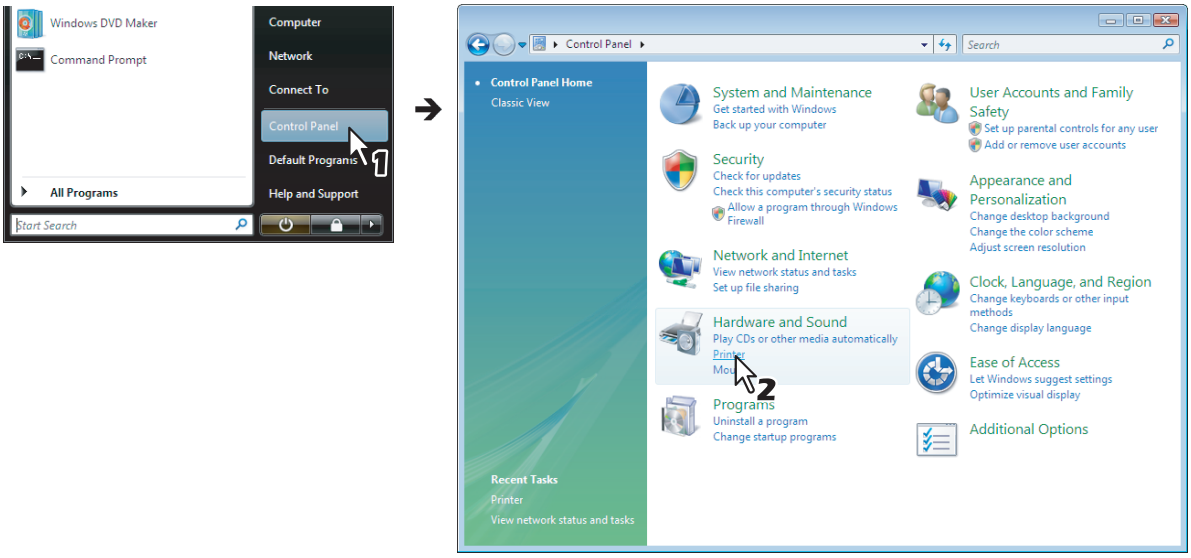
- To perform installation, you must log onto Windows with the “Administrator” account. However, even if you have logged on with a user account other than “Administrator”, entering an administrator password upon display of the [User Account Control] dialog box enables you to perform the installation by temporarily changing the user account.
- Even when you have logged on Windows with the “Administrator” account, the [User Account Control] dialog box may appear. In this case, click a button for allowing the operation, such as [Continue], and continue the operation.
- The certificate must be installed on both MFP and Windows Vista to perform IPP SSL printing from Windows Vista. For instructions on how to install the certificate, refer to ***TopAccess Guide***.

1 Open the printers folder.

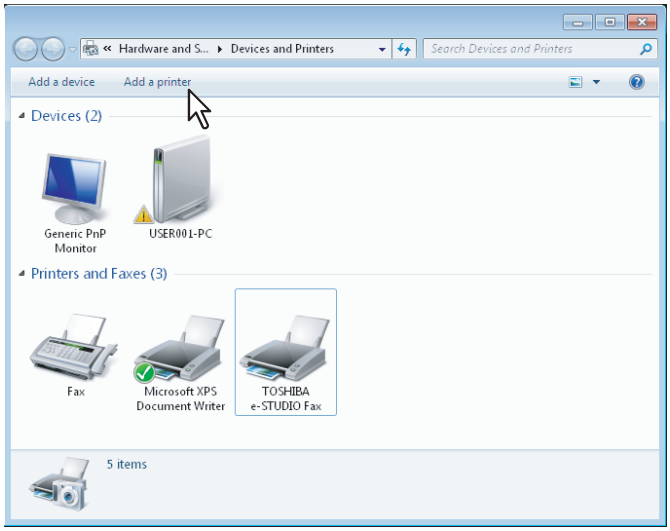
- When you are using Windows 7
  Click [Start] and click [Devices and Printers] to open the [Devices and Printers] folder.



- When you are using Windows Vista / Windows 2008 Server
  Click the start button, select [Control Panel] and click [Printer] under [Hardware and Sound] to open the [Printers] folder.

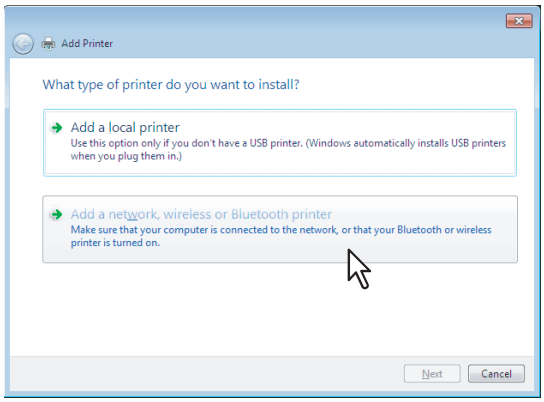


2 Click [Add a printer].

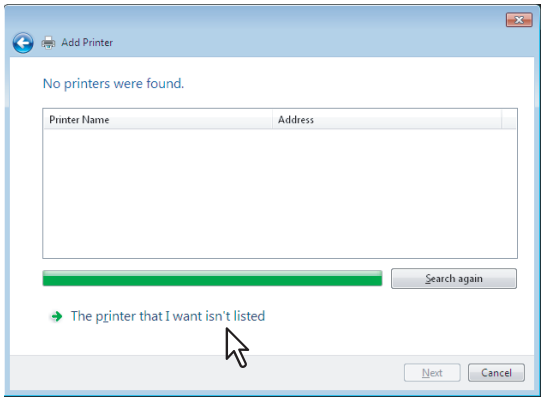


The [Add Printer] dialog box appears.

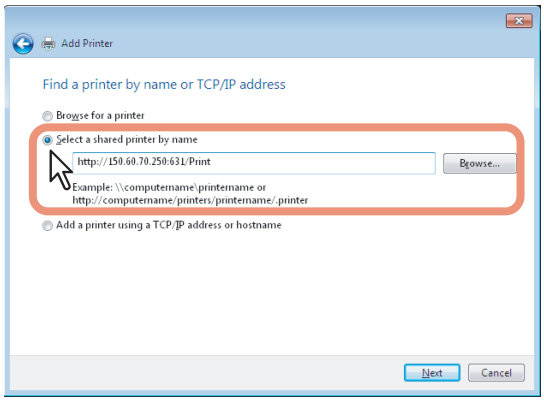
3 Select [Add a network, wireless or Bluetooth printer].



4 Select [The printer that I want isn't listed].



5 Select the [Select a shared printer by name] check box, enter "http://[IP address]:631/Print" in the edit box in [Find by printer name or TCP/IP address] screen.



- Enter the IP address of this equipment instead of [IP address].
  Example: IP address = 192.168.1.2
  http://192.168.1.2:631/Print
- Enter the IPv6 address in the [Printer Name or IP Address] box when the MFP is connected in an IPv6 network.
- If your network uses a DNS or WINS server, enter the printer name of this equipment provided from DNS or WINS instead of [IP address].
  Example: Print Server Name = Mfp-05212774
  http://Mfp-05212774:631/Print
- When you connect from the Internet, enter the FQDN of this equipment provided from DNS instead of [IP address].
  Example: URL = mfp_05212774.toshibatec.com
  http://mfp_05212774.toshibatec.com:631/Print

Note

"P" for "Print" in the IPP URL must be capitalized. The IPP port can be created by entering "print" (non-capitalized) in the IPP URL, but the print job cannot be sent to the equipment. In that case, delete the IPP port and then create the IPP port correctly again.

Tips

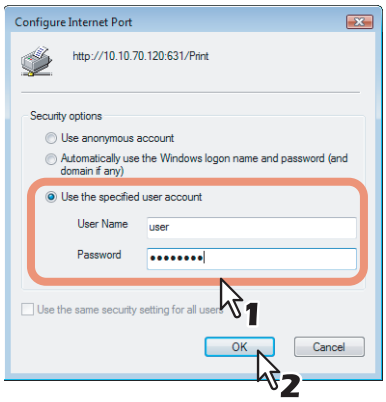
- If the IPP Port80 Enabled option is enabled on this equipment, you can exclude the port number from the URL. (i.e. "http://192.168.1.2/Print")
- If the Enable SSL option for IPP Print is enabled, you must enter "https://[IP address]:[SSL port number]/Print" in the "URL" field. (i.e. "https://192.168.1.2:443/Print")

6 Click [Next].

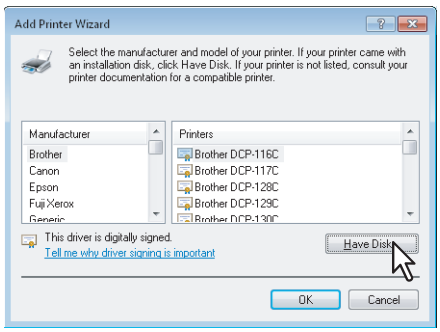
A dialog box appears to confirm the connection with the specified MFP. Wait until completion.

Note

When the Authentication setting for IPP Print is enabled, the dialog box to enter a user name and password appears. If this dialog box appears, enter the user name and password and click [OK]. For user name and password, ask your administrator.

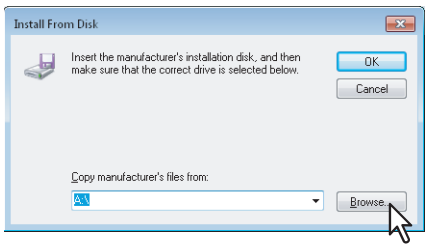


7 Click [Have Disk].



The [Install From Disk] dialog box appears.

8 Click [Browse].

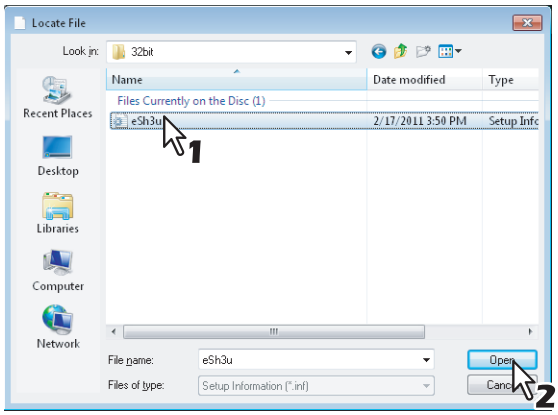


The [Locate File] dialog box appears.

9 Insert the Client Utilities CD-ROM into the CD-ROM drive.

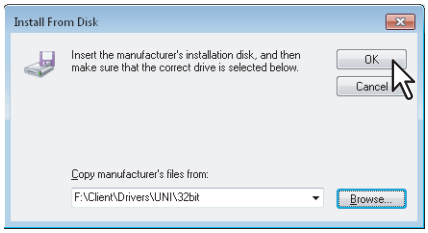
When you insert the Client Utilities CD-ROM into the CD-ROM drive, Software Installer may launch automatically. In this case, click [Exit] to close it and continue the operation.

10 Locate the directory where the printer driver is located, select the .inf file, and then click [Open].

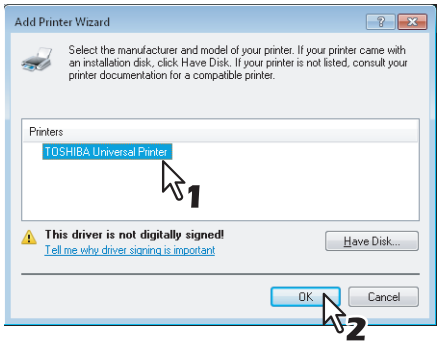


- When using the Windows computer 32-bit edition, select the following folder:
  - Universal Printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\UNI\32bit
  - PS3 printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\PS\32bit
- When using the Windows computer 64-bit edition, select the following folder:
  - Universal Printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\UNI\64bit
  - PS3 printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\PS\64bit

11 Click [OK].

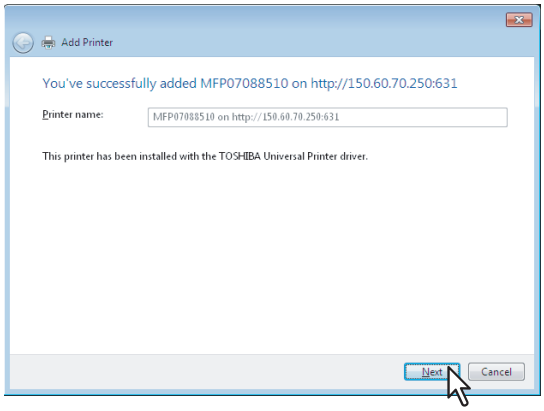


12 Select the printer driver and click [OK].



When the [Windows Security] dialog box is displayed, click [Install this driver software anyway] to continue the installation.

13 Click [Next].

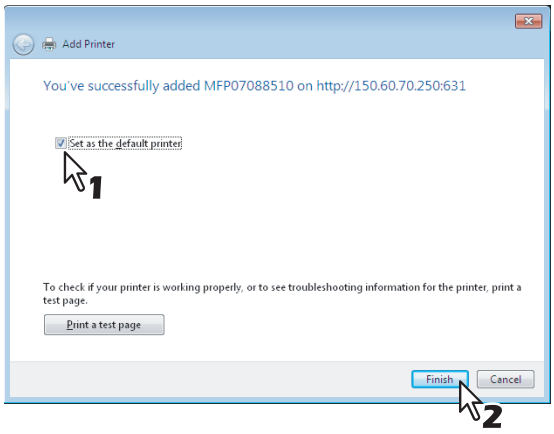


Tip

If the Printer Sharing dialog box is displayed, select whether to share the equipment with other users on your network and then click [Next].

- Change the share name or enter the location and comments as required.

14 Select whether using this printer as a default printer, and click [Finish].



The printer driver is installed.

Notes

- Before using the printer driver for printing, configure the installed options of the equipment and department code (if required) on the printer driver. Refer to the ***Printing Guide*** for the instructions.
- In this installation, only the following three tabs appear on the Printer Properties screen.
  - The [Basic] tab
  - The [Finishing] tab
  - The [Others] tab

  If you need other tabs to be displayed on the screen, install the plug-ins separately.
  For instructions on how to install them, see the following page:
  P.107 “Installing Plug-ins”

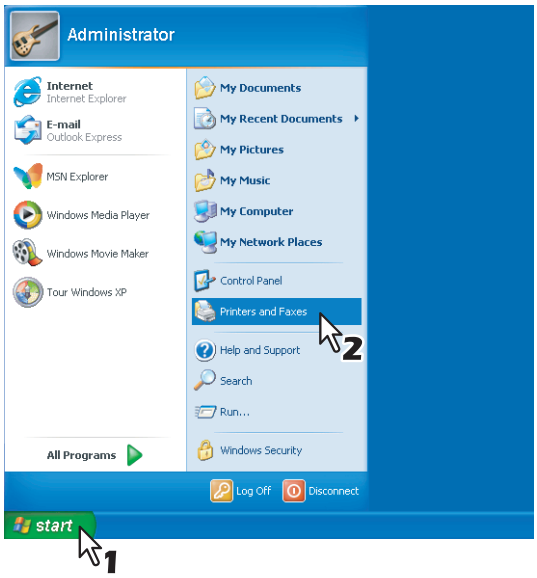
❑ Windows XP / Windows Server 2003

You can install a printer driver for IPP printing in Windows XP / Windows Server 2003 using the Add Printer Wizard.

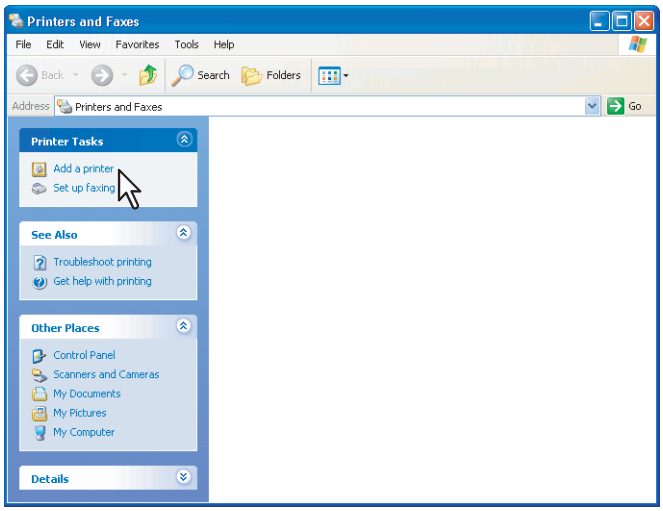
Note

To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.

1 Click [Start] and click [Printers and Faxes] to open the [Printers and Faxes] folder.

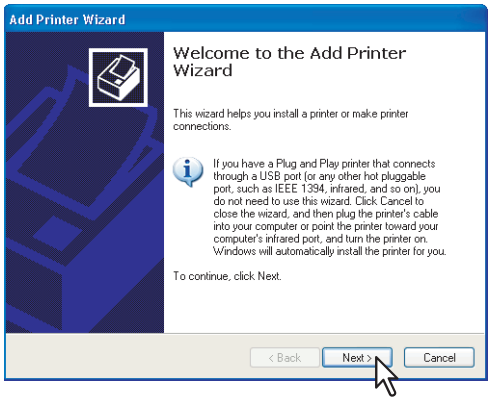


2 Click the [Add a printer] in the Printer Tasks menu.

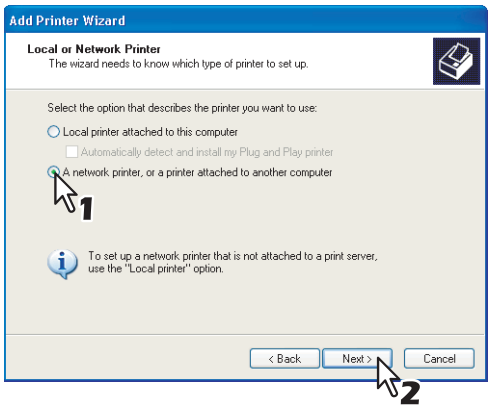


The [Add Printer Wizard] dialog box appears.

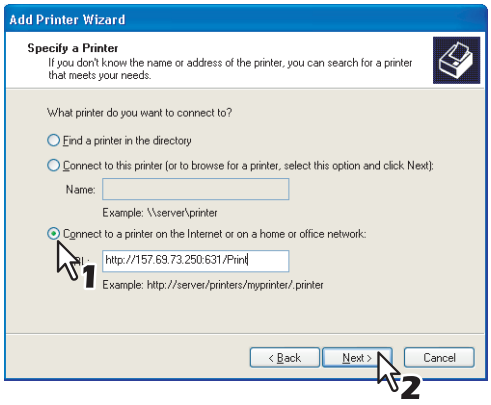
3 Click [Next].



4 Select [A network printer, or a printer attached to another computer] and click [Next].



5 Select [Connect to a printer on the Internet or on a home or office network], and enter “http://[IP address]:631/Print” in the [URL] field.



- Enter the IP address of this equipment instead of [IP address].
  Example: IP address = 192.168.1.2
  http://192.168.1.2:631/Print
- Enter the IPv6 address in the [Printer Name or IP Address] box when the MFP is connected in an IPv6 network.
- If your network uses a DNS or WINS server, enter the printer name of this equipment provided from DNS or WINS instead of [IP address].
  Example: Print Server Name = Mfp-05212774
  http://Mfp-05212774:631/Print
- When you connect from the Internet, enter the FQDN of this equipment provided from DNS instead of [IP address].
  Example: URL = mfp_05212774.toshibatec.com
  http://mfp_05212774.toshibatec.com:631/Print

Note

“P” for “Print” in the IPP URL must be capitalized. The IPP port can be created by entering “print” (non-capitalized) in the IPP URL, but the print job cannot be sent to the equipment. In that case, delete the IPP port and then create the IPP port correctly again.

Tips

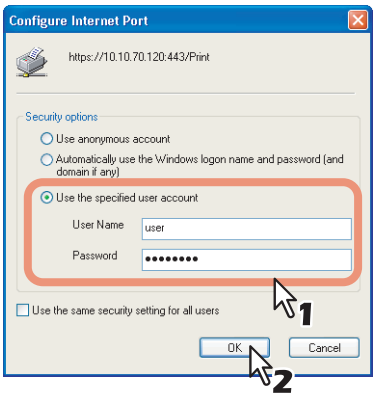
- If the IPP Port80 Enabled option is enabled on this equipment, you can exclude the port number from the URL. (i.e. “http://192.168.1.2/Print”)
- If the Enable SSL option for IPP Print is enabled, you must enter “https://[IP address]:[SSL port number]/Print” in the “URL” field.
  (i.e. “https://192.168.1.2:443/Print”)

6 Click [Next].

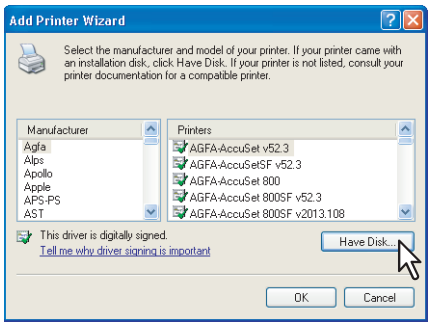
The [Add Printer Wizard] dialog box appears.

Note

When the Authentication setting for IPP Print is enabled, the dialog box to enter a user name and password appears. If this dialog box appears, enter the user name and password and click [OK]. For user name and password, ask your administrator.

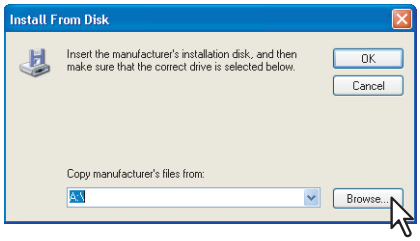


7 Click [Have Disk].



The [Install From Disk] dialog box appears.

8 Click [Browse].

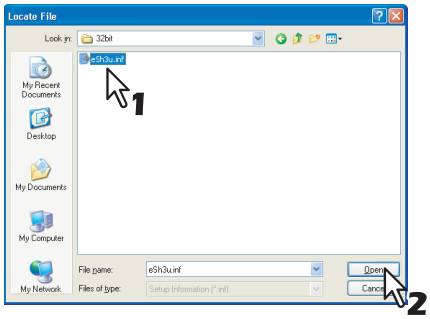


The [Locate File] dialog box appears.

9 Insert the Client Utilities CD-ROM into the CD-ROM drive.

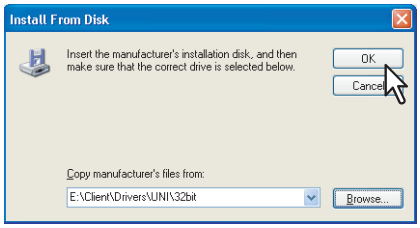
When you insert the Client Utilities CD-ROM into the CD-ROM drive, Software Installer may launch automatically. In this case, click [Exit] to close it and continue the operation.

10 Locate the directory where the printer driver is located, select the inf file, and click [Open].

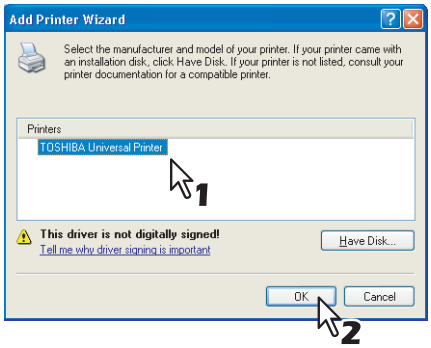


- When using the Windows computer 32-bit edition, select the following folder:
  - Universal Printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\UNI\32bit
  - PS3 printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\PS\32bit
- When using the Windows computer 64-bit edition, select the following folder:
  - Universal Printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\UNI\64bit
  - PS3 printer driver
    [Client Utilities CD-ROM]:\Client\Drivers\PS\64bit

11 Click [OK].

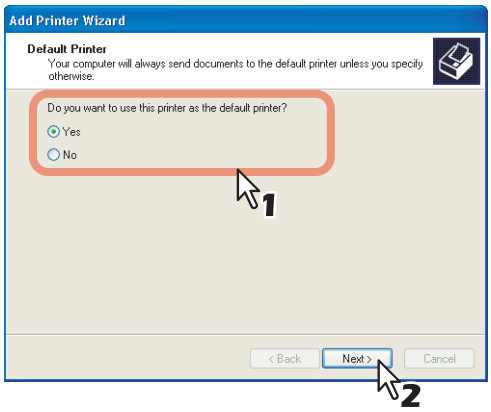


12 Select the printer driver and click [OK].

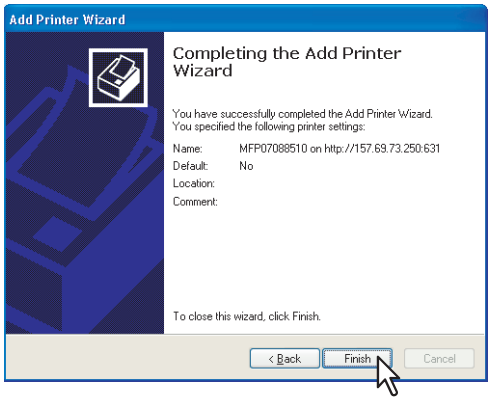


- If any other printer driver(s) had already been installed on your computer, the Default Printer screen is displayed. Continue to next step.
- If no printer driver had been installed on your computer, the complete screen is displayed. Skip to step 14.

13 Select whether using this printer as a default printer and click [Next].



14 Click [Finish].



The printer driver is installed.

Notes

- Before using the printer driver for printing, configure the installed options of the equipment and department code (if required) on the printer driver. Refer to the ***Printing Guide*** for the instructions.
- In this installation, only the following three tabs appear on the Printer Properties screen.
  - The [Basic] tab
  - The [Finishing] tab
  - The [Others] tab

  If you need other tabs to be displayed on the screen, install the plug-ins separately.
  For instructions on how to install them, see the following page:
  P.107 “Installing Plug-ins”

■ Novell iPrint

This section describes how to install the printer drivers for Novell iPrint.
To install the printer driver for Novell iPrint on the client computer, download and install the Novell iPrint Client and printer driver from the NetWare print server.

Notes

- To set up the Novell iPrint in the client computers, the NetWare print server must be configured for iPrint first.
- Before installing the printer driver for Novell iPrint, make sure the following environments are satisfied in your computer.
  - Microsoft Internet Explorer 5.0 or later or Netscape 4.76 is installed (Novell iPrint is not supported on Netscape 6).
  - JavaScript must be enabled on the web browser.
- The certificate is required to login during the Novell iPrint installation when the SSL security is enabled on the NetWare print server.

1 Start your web browser and enter the following URL in the address bar.

`http://<IP address or DNS for NDPS Manager>/ipp`

Notes

- If you do not know the IP address or DNS for NDPS Manager, ask your network administrator.
- If the IP address or DNS is secured using SSL, enter the URL address as following:
  `https://<IP address or DNS for NDPS Manager>/ipps`

2 If the iPrint Client is not installed on your computer, you are prompted to install it.

3 Click the printer that you want to install from the list of available printers that is displayed in the iPrint web page.

The selected printer driver is installed on your computer.

■ Web Service Print

This equipment supports the WSD (Web Services on Devices) protocol installed in Windows Vista / Windows 7 / Windows Server 2008. The following descries how to install a printer driver using the WSD protocol.
The procedure to install the printer driver differs depending on the version of Windows used.

P.101 “Windows 7”
P.103 “Windows Vista / Windows Server 2008”

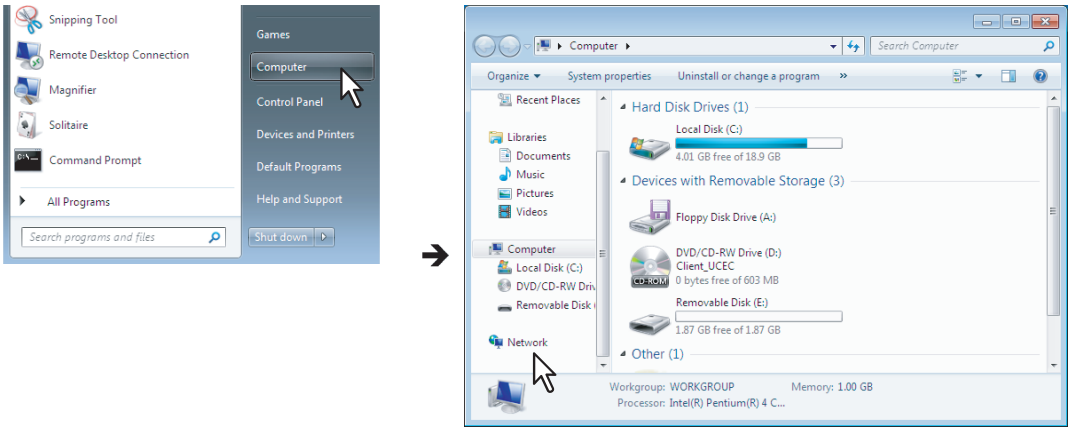
Notes

- To perform installation, you must log onto Windows with the “Administrator” account. However, even if you have logged on with a user account other than “Administrator”, entering an administrator password upon display of the [User Account Control] dialog box enables you to perform the installation by temporarily changing the user account.
- Even when you have logged on Windows with the “Administrator” account, the [User Account Control] dialog box may appear. In this case, click a button for allowing the operation, such as [Continue], and continue the operation.
- To begin the installation, you must first install the printer driver to your computer.
  For instructions on how to install it to your computer, see the following page:
  P.36 “Installing the Printer Drivers”
- A driver for Web Services Scanning is automatically installed as well as the client software.

❑ Windows 7

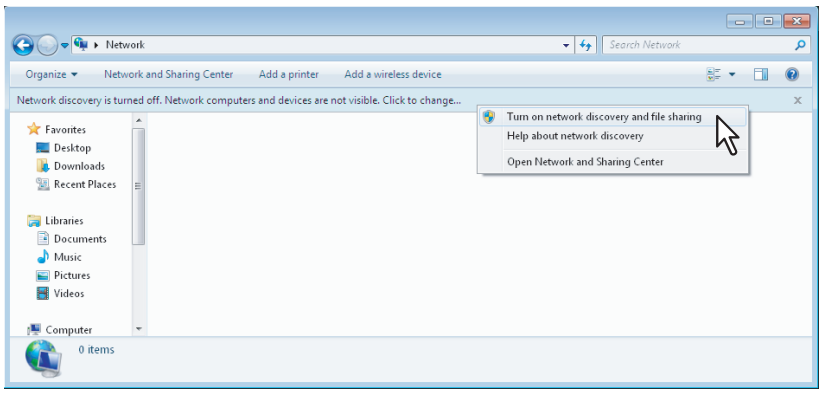
Follow the steps below to install a printer driver on Windows 7.

1 Click the start button, select [Computer] and click [Network] to open the [Network] screen.



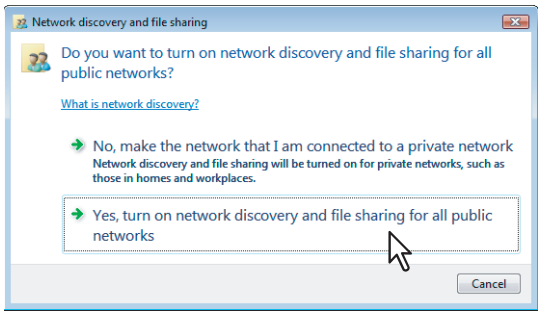
- Go to step 4 if the Network discovery is enabled.
- Go to the next step if the Network discovery is disabled.

2 Click [Network discovery is turned off. Network computers and devices are not visible. Click to change]. Then select [Turn on network discovery and file sharing].



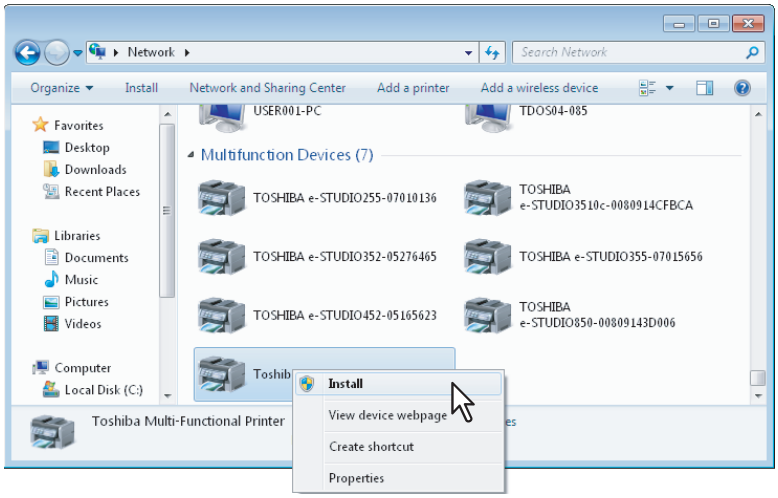
The [Network discovery and file sharing] dialog box appears.

3 Click [Yes, turn on network discovery and file sharing for all public networks].



Connected computers and icons of the multifunction devices are displayed in the [Network] screen.

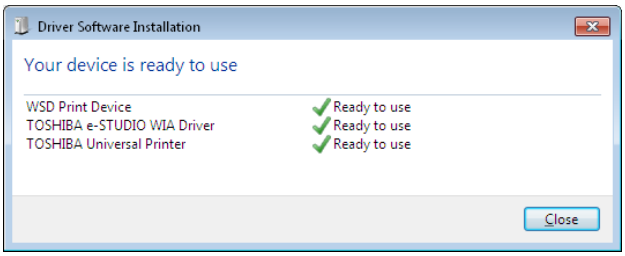
4 Select the icon of the multifunction device of the equipment and right-click to make the menu appear, then click [Install].



The installation begins.

Tip

You can check the current installing status by clicking a balloon message at the bottom right of the screen.

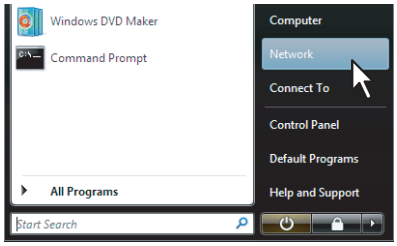


5 The installation is completed.

❑ Windows Vista / Windows Server 2008

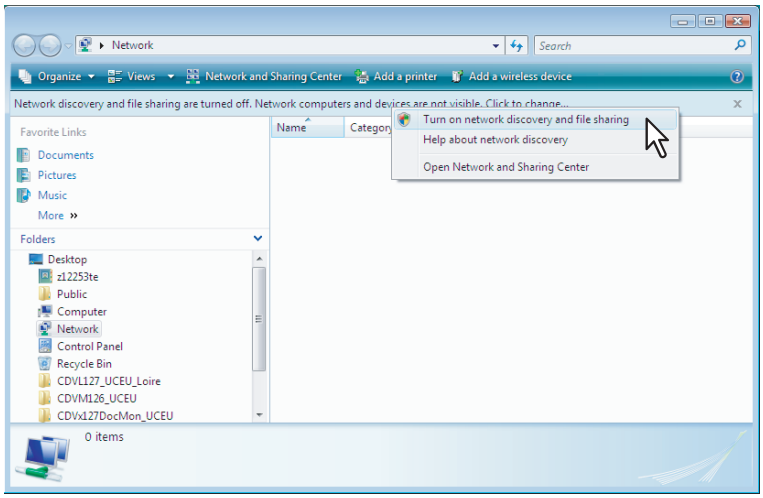
Follow the steps below to install a printer driver on Windows Vista / Windows Server 2008.

1 Click the start button and click [Network] to open the [Network] screen.



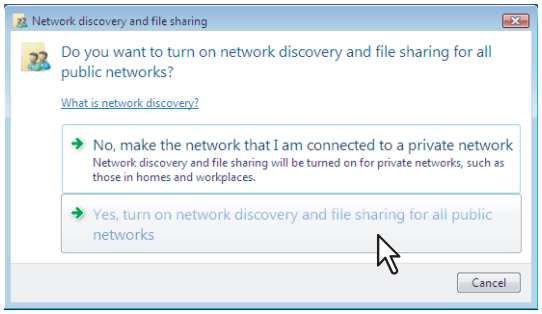
- Go to step 4 if the Network discovery is enabled.
- Go to the next step if the Network discovery is disabled.

2 Click [Network discovery and file sharing is turned off. Network computers and devices are not visible. Click to change]. Then select [Turn on network discovery and file sharing].



The [Network discovery and file sharing] dialog box appears.

3 Click [Yes, turn on network discovery and file sharing for all public networks].

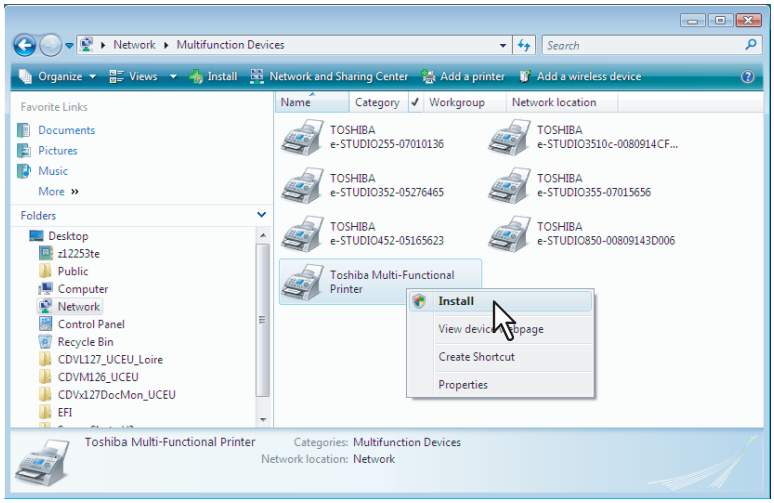


Connected computers and icons of the multifunction devices are displayed in the [Network] screen.

4 Select the icon of the multifunction device of the equipment and right-click to make the menu appear, then click [Install].

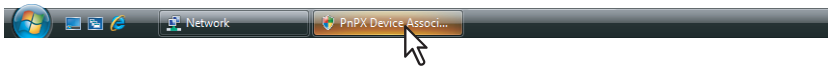
Tip

You can display only the multifunction devices by checking [Multifunction Devices] on the [Category] box.



[PnPX Device Association] is displayed on the task bar.

5 Click [PnPX Device Association] on the task bar.

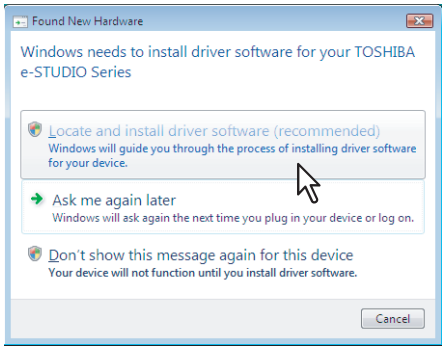


The [Found New Hardware] dialog box appears.

Tip

You can check the current installing status by clicking a balloon message at the bottom right of the screen.

6 Click [Locate and install driver software (recommended)].

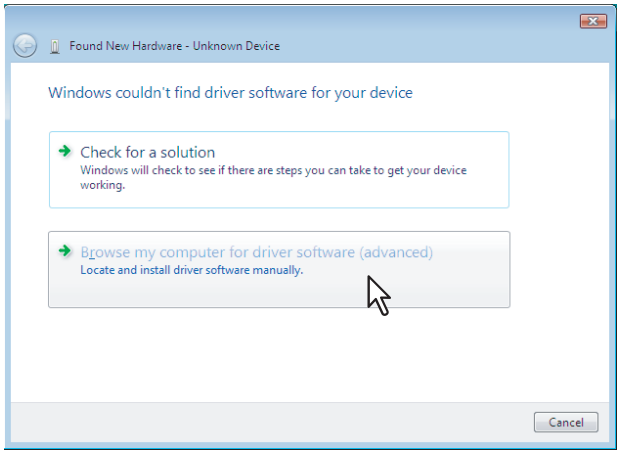


The [Found New Hardware - Unknown Device] dialog box appears.

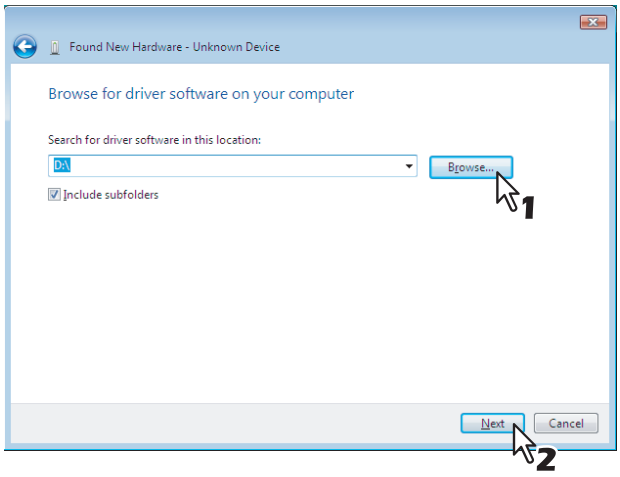
Tip

When the confirmation dialog box for online search is displayed, click [Don't search online].

7 Click [Browse my computer for driver software (advanced)].

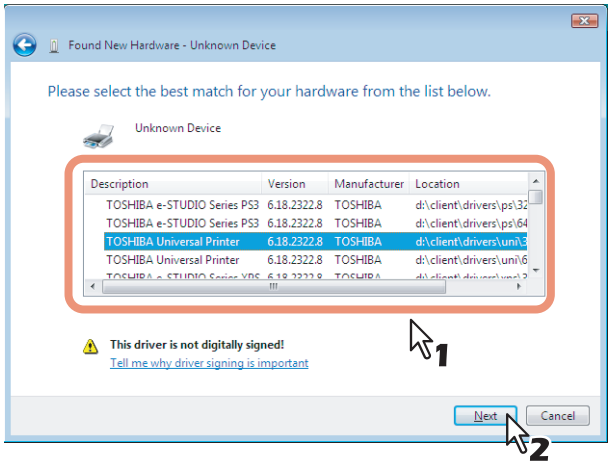


8 Set the Client Utilities CD-ROM to the CD-ROM drive, click [Browse] to specify the position of the CD-ROM drive and then click [Next].



When you insert the Client Utilities CD-ROM into the CD-ROM drive, Software Installer may launch automatically. In this case, click [Exit] to close it and continue the operation.

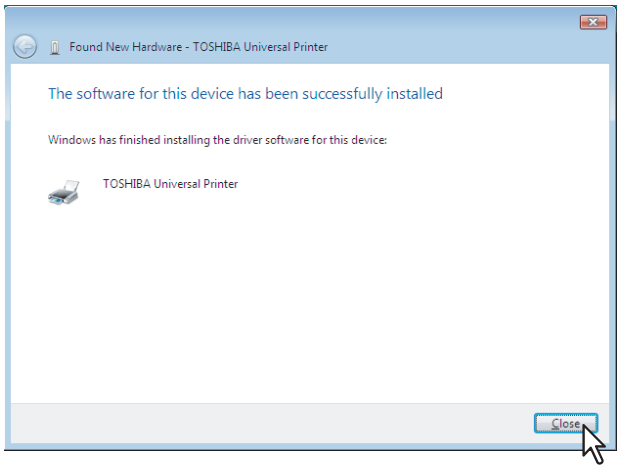
9 Select the printer driver to be installed, and then click [Next].



Note

When the [Windows Security] dialog box is displayed, click [Install this driver software anyway] to continue the installation.

10 The installation is completed.



Installing Plug-ins

Follow the steps below to install the plug-ins on your Windows computer.

Notes

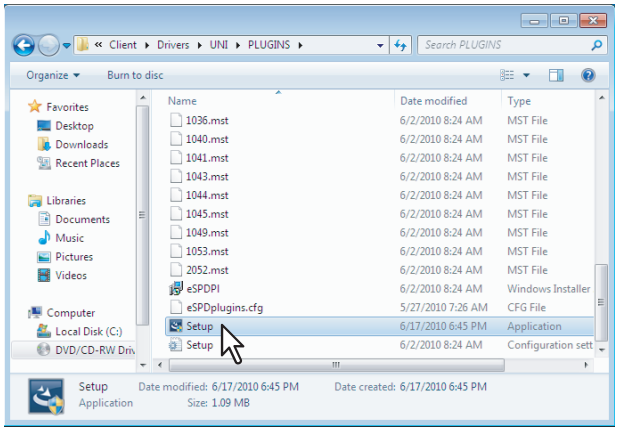
- To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.
  If Windows Vista / Windows 7 / Windows Server 2008 is used, you can perform the installation by temporarily changing the user account following the procedure below.
  - Open the “PLUGINS” folder in a CD-ROM, and then double-click “Setup.exe”.
  - When the [User Account Control] dialog box is displayed, enter an administrator password, and then click [Yes] ([OK]).
- Even when you have logged on Windows with the “Administrator” account, the [User Account Control] dialog box may appear. In this case, click a button for allowing the operation, such as [Continue], and continue the operation.

1 Insert the Client Utilities CD-ROM into the CD-ROM drive.

When you insert the Client Utilities CD-ROM into the CD-ROM drive, Software Installer may launch automatically. In this case, click [Exit] to close it.

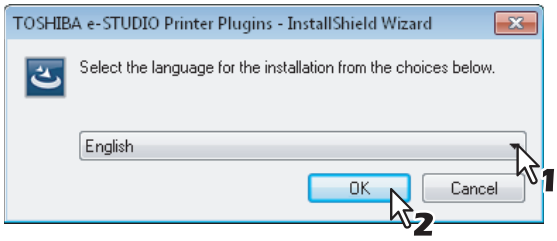
2 Open the following folder containing the set up program, and double-click “Setup.exe”.

[Client Utilities CD-ROM]:\Client\Drivers\PLUGINS



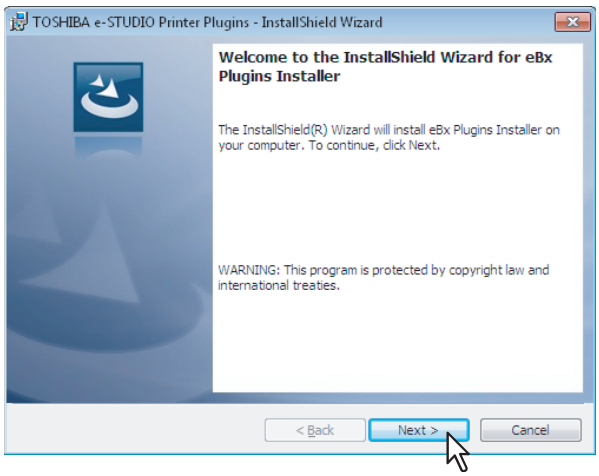
The screen for choosing a language is displayed.

3 Select the desired language, and click [OK].



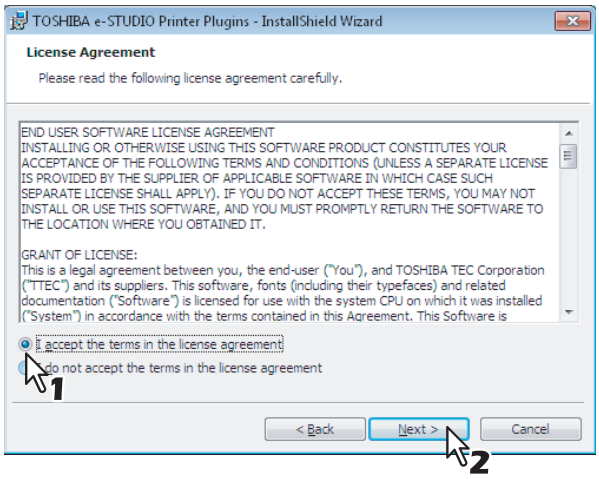
The Welcome screen is displayed.

4 Click [Next].



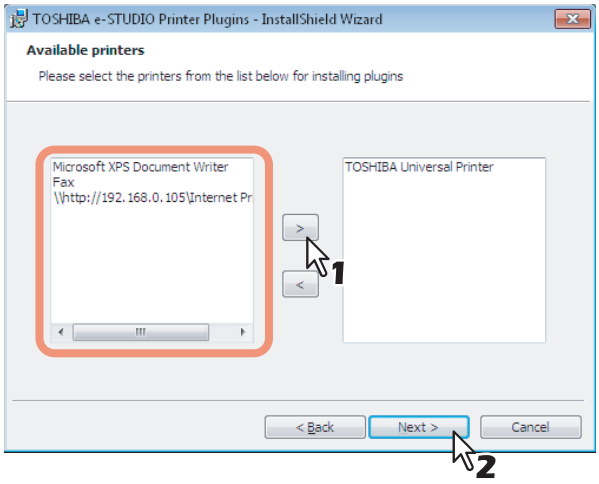
The License Agreement screen is displayed.

5 Select [I accept the terms in the license agreement], and click [Next].



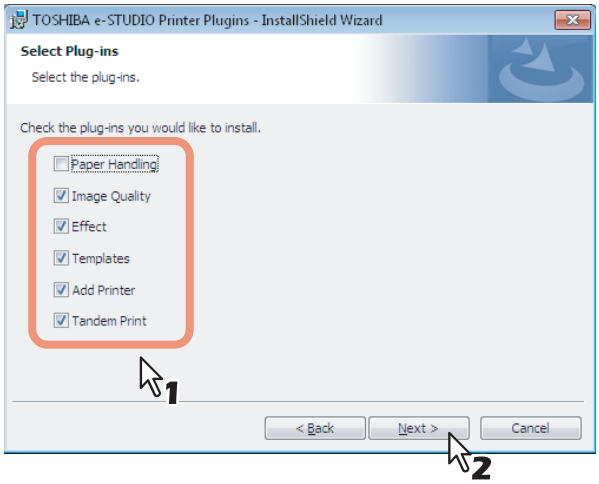
The Available printers screen is displayed.

6 Select the printers on which the plug-ins are installed, and click [Next].

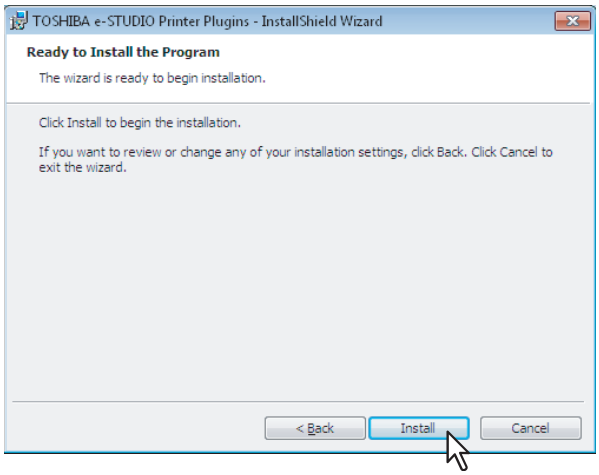


The Select Plug-ins screen is displayed.

7 Select the plug-ins you would like to install, and click [Next].

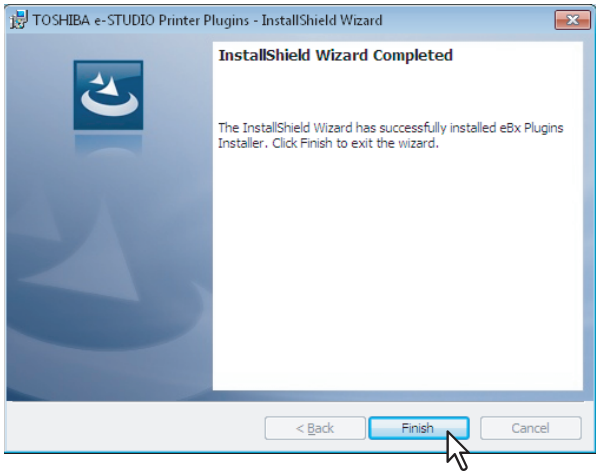


8 **Click [Install].**



The installation begins.

9 **When the installation is complete, click [Finish].**



Copying the PPD File for Windows

The Client Utilities CD-ROM contains a printer description file for popular Windows applications. For applications not allowing the automatic installation of PPD files, copy the PPD file to a proper directory in order to enable printer-specific settings in the [Print] dialog box or the [Page Setup] dialog box.

1 **Insert the Client Utilities CD-ROM into the CD-ROM drive.**

When you insert the Client Utilities CD-ROM into the CD-ROM drive, Software Installer may launch automatically. In this case, click [Exit] to close it.

2 **Open the folder that contains the PPD file for Windows.**

Tip

Use the file contained in the following folder:

- [Client Utilities CD-ROM]:\Client\Drivers\WinPPD

3 **Copy the PPD file (*.ppd) to the appropriate location.**

Tip

For a proper directory to which the PPD file is to be copied, refer to the manual of the application.

Uninstalling Printer Drivers

The following instructions describe how to uninstall a printer driver.
The procedure to uninstall the printer driver differs depending on the version of Windows used.
P.111 “Windows 7”
P.113 “Windows Vista / Windows Server 2008”
P.116 “Windows XP / Windows Server 2003”

■ Windows 7

Follow the steps below to uninstall a printer driver from Windows 7.

Notes

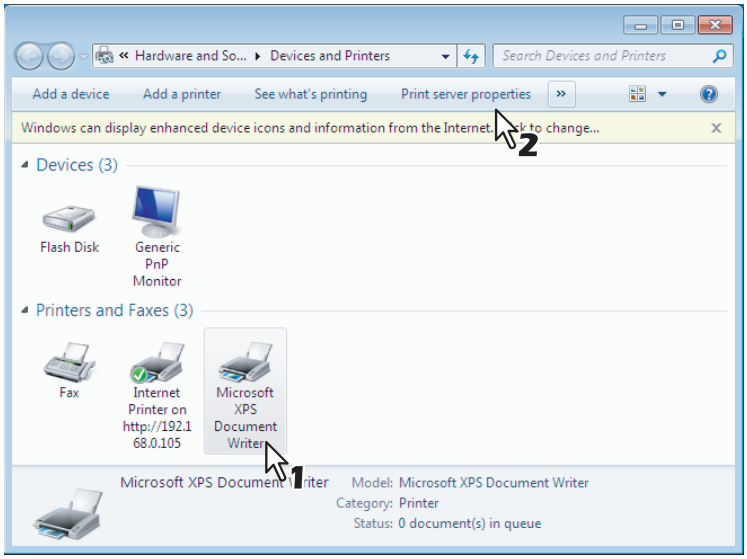
- To perform uninstallation, you must log onto Windows with the “Administrator” account. However, even if you have logged on with a user account other than “Administrator”, entering an administrator password upon display of the [User Account Control] dialog box enables you to perform the uninstallation by temporarily changing the user account.
- Even when you have logged on Windows with the “Administrator” account, the [User Account Control] dialog box may appear. In this case, click a button for allowing the operation, such as [Continue], and continue the operation.

1 Click [Start] and click [Devices and Printers] to open the [Devices and Printers] folder.

2 Right click on the printer to be deleted and select [Remove device] from the menu displayed.

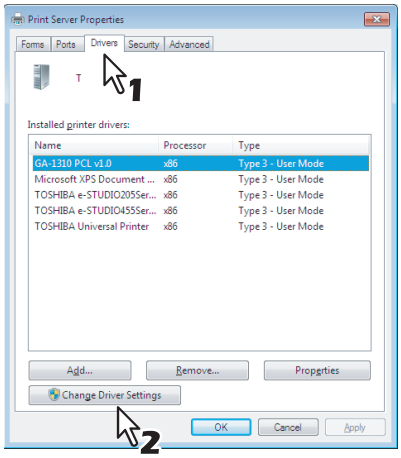
When the confirmation dialog box for deletion is displayed, click [Yes].

3 Select one of the remaining printer icons and click [Print server properties].

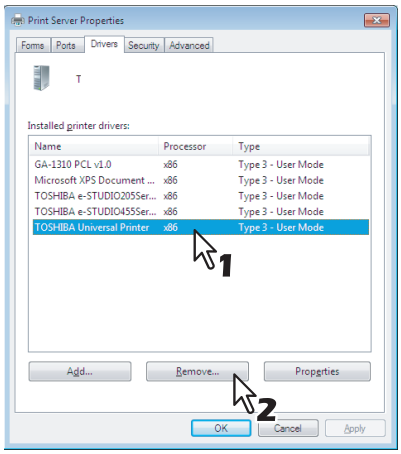


The [Print Server Properties] dialog box appears.

4 Display the [Drivers] tab and click [Change Driver Settings].

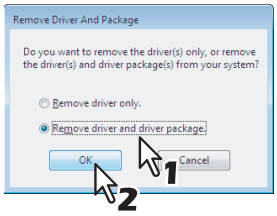


5 Select the printer driver to be deleted and click [Remove].



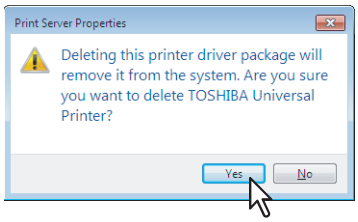
The [Remove Driver And Package] dialog box appears.

6 Select [Remove driver and driver package] and click [OK].



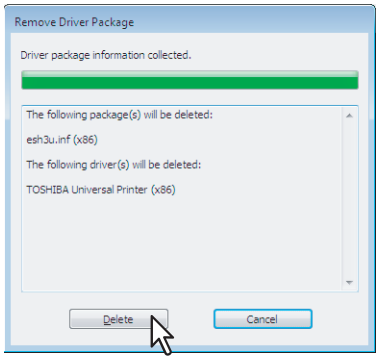
The [Print Server Properties] dialog box appears.

7 Click [Yes].



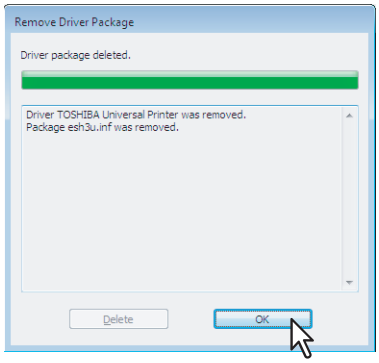
The “Driver package information collected.” message is displayed.

8 Click [Delete].



The “Driver package deleted.” message is displayed.

9 **Click [OK].**



10 **Close the [Print Server Properties] dialog box.**

■ Windows Vista / Windows Server 2008

Follow the steps below to uninstall a printer driver from Windows Vista / Windows Server 2008.

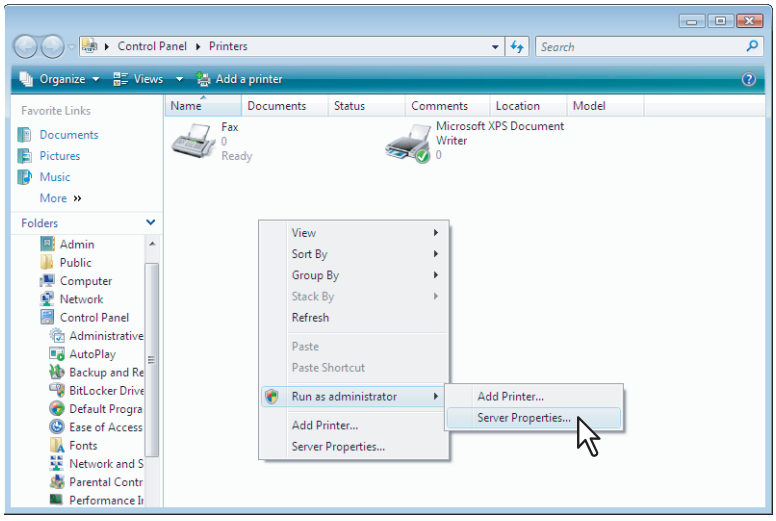
Notes

- To perform uninstallation, you must log onto Windows with the “Administrator” account. However, even if you have logged on with a user account other than “Administrator”, entering an administrator password upon display of the [User Account Control] dialog box enables you to perform the uninstallation by temporarily changing the user account.
- Even when you have logged on Windows with the “Administrator” account, the [User Account Control] dialog box may appear. In this case, click a button for allowing the operation, such as [Continue], and continue the operation.

1 **Click [Start], select [Control Panel] and click [Printer] under [Hardware and Sound] to open the [Printers] folder.**

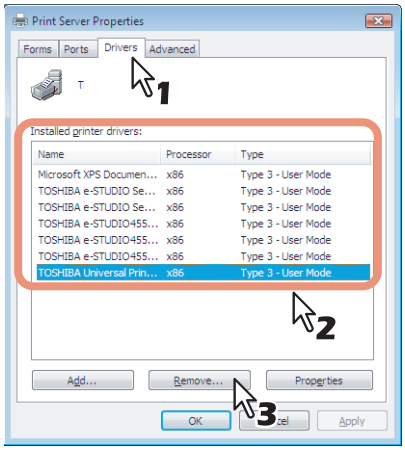
2 **Right click on the printer to be deleted and select [Delete] from the menu displayed.**
When the confirmation dialog box for deletion is displayed, click [Yes].

3 **Right click in the blank area in the [Printers] window and click [Run as administrator] and then [Server Properties] in the menu displayed.**



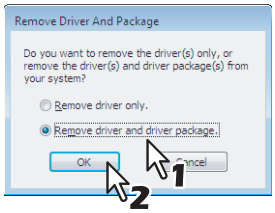
The [Print Server Properties] dialog box appears.

4 **Display the [Drivers] tab and select the printer drivers to be deleted. Then click [Remove].**



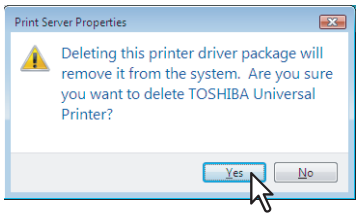
The [Remove Driver And Package] dialog box appears.

5 **Select [Remove driver and driver package] and click [OK].**



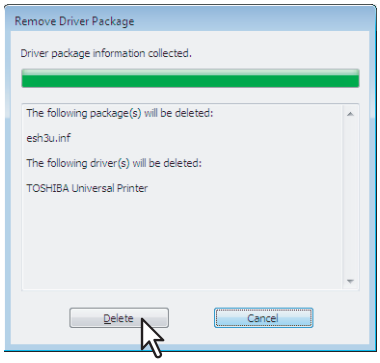
The [Print Server Properties] dialog box appears.

6 **Click [Yes].**



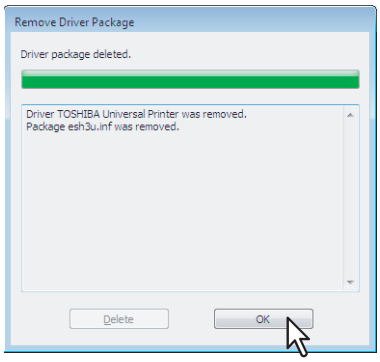
The “Driver package information collected.” message is displayed.

7 **Click [Delete].**



The “Driver package deleted.” message is displayed.

8 **Click [OK].**



9 **Close the [Print Server Properties] dialog box.**

■ Windows XP / Windows Server 2003

Follow the steps below to uninstall a printer driver from Windows XP / Windows Server 2003.

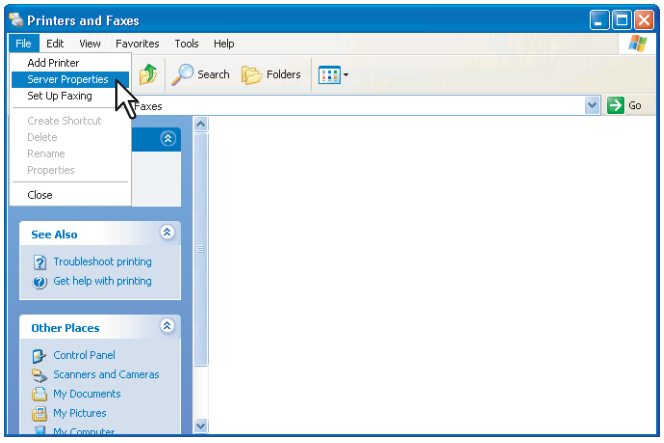
Note

To perform uninstallation, you must log onto Windows with the “Administrator” account.

1 Click [Start] and click [Printers and Faxes] to open the [Printers and Faxes] folder.

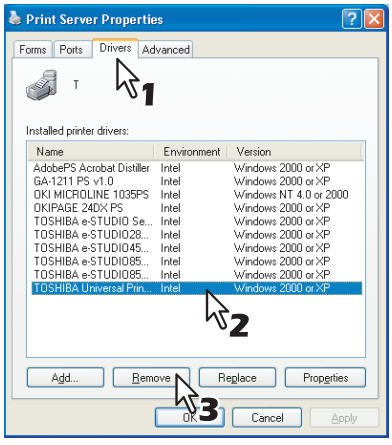
2 Right click on the printer to be deleted and select [Delete] from the menu displayed.
When the confirmation dialog box for deletion is displayed, click [Yes].

3 Click the [File] menu and select [Server Properties].



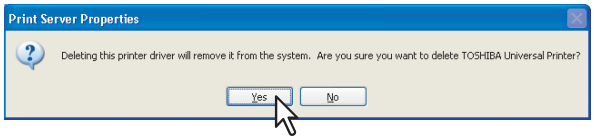
The [Print Server Properties] dialog box appears.

4 Select the [Drivers] tab. Select the printer drivers that you want to delete, and click [Remove].



The [Print Server Properties] dialog box appears.

5 Click [Yes].



The printer driver is completely deleted.

4

INSTALLING PRINTER DRIVERS FOR MACINTOSH

This chapter describes the instructions on how to install the client software on Macintosh.

About the Installation 118
About client software for Macintosh 118
Planning for installation 118

Installing the Printer on Mac OS X 10.2.4 to Mac OS X 10.6.x 119
Installing the Macintosh PPD file 119
Installing plug-ins (Mac OS X 10.4 or later) 123
Configuring the printer on Mac OS X 10.6.x 126
Configuring the printer on Mac OS X 10.5.x 134
Configuring the printer on Mac OS X 10.4.x 142
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About the Installation

Refer to following instructions for configuring printing systems on Macintosh computers.
🕮 P.118 “About client software for Macintosh”
🕮 P.118 “Planning for installation”
🕮 P.119 “Installing the Printer on Mac OS X 10.2.4 to Mac OS X 10.6.x”

■ About client software for Macintosh

PostScript Printer Description file

The Macintosh PPD (PostScript Printer Description) file contains information about controller-specific features.
Two PPD files are provided: one is for Macintosh on the Mac OS X 10.2.4 to Mac OS X 10.3.x, the other is for Macintosh on the Mac OS X 10.4 or later. In addition, plug-ins are provided, which are used for Macintosh on the Mac OS X 10.4 or later.

■ Planning for installation

❑ System requirements

To install the printer drivers on a Mac OS computer, the following environment is required.

Display resolution:	1028 x 768 dots or more
OS:	Mac OS X 10.2.4 to Mac OS X 10.6.x
Protocol:	TCP/IP, AppleTalk (Ethernet), Bonjour

Installing the Printer on Mac OS X 10.2.4 to Mac OS X 10.6.x

Install and configure the printer by the following pages:

📖 P.119 “Installing the Macintosh PPD file”
📖 P.123 “Installing plug-ins (Mac OS X 10.4 or later)”
📖 P.126 “Configuring the printer on Mac OS X 10.6.x”
📖 P.134 “Configuring the printer on Mac OS X 10.5.x”
📖 P.142 “Configuring the printer on Mac OS X 10.4.x”
📖 P.150 “Configuring the printer on Mac OS X 10.2.4 to 10.3.x”
📖 P.157 “Configuring the installable options”

■ Installing the Macintosh PPD file

The equipment supports printing from Mac OS X 10.2.4 to Mac OS X 10.6.x.
The following describes an installation on Mac OS X 10.6.x. The procedure is the same when other versions of Macintosh are used.

1 Insert the Client Utilities CD-ROM into the CD-ROM drive and open the “MacPPD/OSX/xxxx” folder.

* “xxxx” is the OS version.
10_2-10_3: This includes the PPD file to enable printing from Macintosh on the Mac OS X 10.2.4 to Mac OS X 10.3.x.
10_4-: This includes the PPD file to enable printing from Macintosh on the Mac OS X 10.4 or later.

2 Copy the GZIP file (TOSHIBA_ ColorMFP_X4.dmg.gz) to the desktop.

* The GZIP file name applied for Mac OS X 10.2.4 to Mac OS X 10.3.x is “TOSHIBA_ColorMFP.dmg.gz”.

3 Double-click the GZIP file on the desktop.

- The Disk Image file (TOSHIBA_ ColorMFP_X4.dmg) is extracted on the desktop.
  The Disk Image file (TOSHIBA_ ColorMFP.dmg) is extracted on the desktop when you are using Mac OS X 10.2.4 to Mac OS X 10.3.x.
- If the installer window appears, go to step 5.

4 Double-click the Disk Image file (TOSHIBA_ ColorMFP_X4.dmg).

The installer window appears.

* Double-click the Disk Image file (TOSHIBA_ ColorMFP.dmg) when you are using Mac OS X 10.2.4 to Mac OS X 10.3.x.

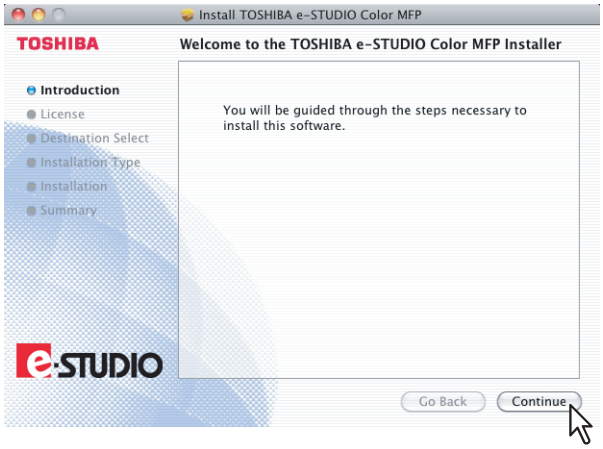
5 Double-click the icon in the installer window.

The installer starts.

Notes

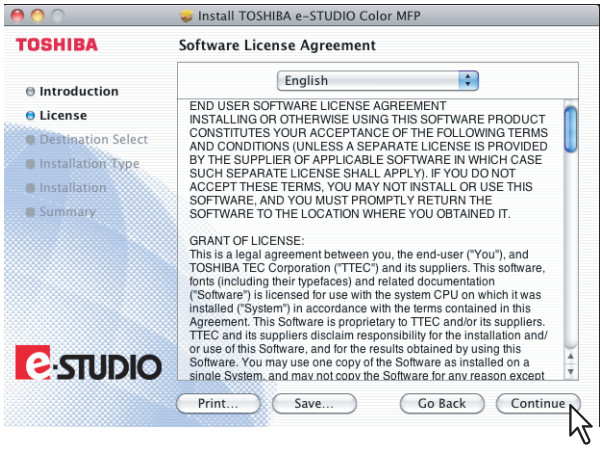
- When you install the PPD file to Mac OS X 10.2.4 to 10.2.8, the [Authenticate] dialog box appears. In that case, enter the name and password and click [OK].
- When you start up the installer, be sure that Mac OS Printer Setup Utility is not operating. If a PPD file is installed while the Mac OS Printer Setup Utility is operating, the printer may not be normally recognized.

6 Click [Continue].

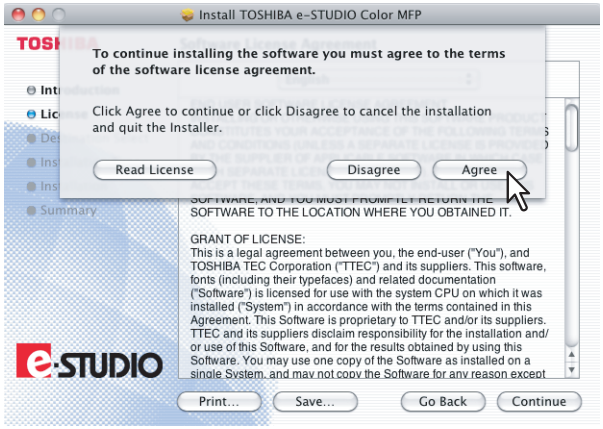


The [Software License Agreement] window is displayed.

7 Click [Continue].



8 Click [Agree].



The [Standard Install] window is displayed.

Note

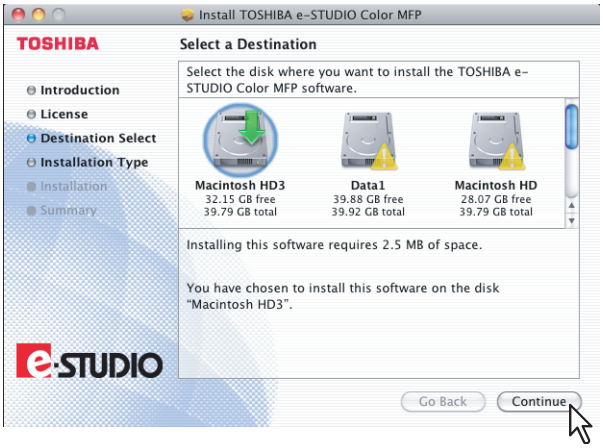
The subsequent steps may differ depending on the Mac OS version.

9 Click [Install] (or [Upgrade]).

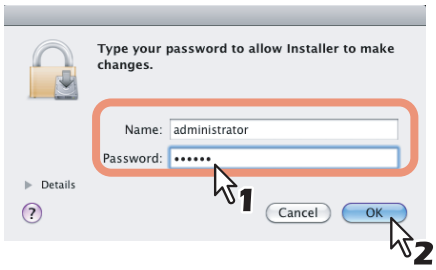
The [Authenticate] dialog box appears.

Tip

The Select a Destination dialog box appears by clicking [Change Install Location]. Select the boot disk for Mac OS X and click [Continue].



10 Enter the name and password, and click [OK].

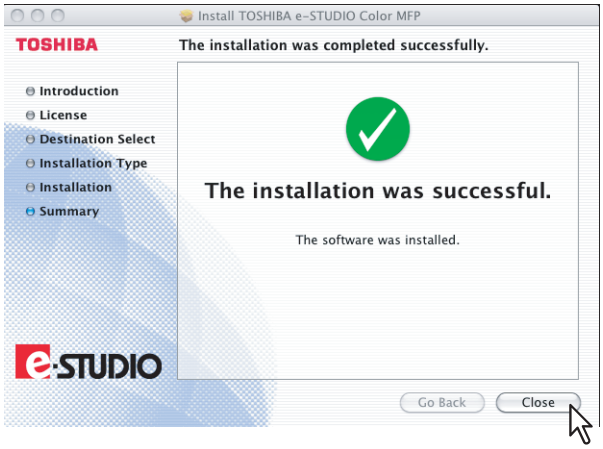


It starts copying the PPD files for each language.

Note

When you install the PPD file to Mac OS X 10.2.4 to 10.2.8, the [Authenticate] dialog box does not appear in this step.

11 **Click [Close] to close the installer window.**



12 **Delete the GZIP files and Installer files created on the desktop.**

13 **Continue the procedure for installing plug-ins and configuring the printer.**

P.123 “Installing plug-ins (Mac OS X 10.4 or later)”
P.126 “Configuring the printer on Mac OS X 10.6.x”
P.134 “Configuring the printer on Mac OS X 10.5.x”
P.142 “Configuring the printer on Mac OS X 10.4.x”
P.150 “Configuring the printer on Mac OS X 10.2.4 to 10.3.x”

■ Installing plug-ins (Mac OS X 10.4 or later)

This section describes how to install plug-ins used for Mac OS X 10.4 or later.

When installing them, you can use the following functions:

- Watermark
  This function allows you to print a watermark such as [Confidential], [Draft], [Proof] or [Top Secret] over a document.
- e-Filing
  This function allows you to store print jobs in e-Filing on this equipment.

Tip

For details on watermarks and e-Filing, refer to the ***Printing Guide***.

The following describes an installation on Mac OS X 10.6.x. The procedure is the same when other versions of Macintosh are used.

1 Insert the Client Utilities CD-ROM into the CD-ROM drive and open the "MacPPD/OSX/10_4-" folder.

2 Copy the GZIP file (TOSHIBA_eS-Ex_Features.dmg.gz) to the desktop.

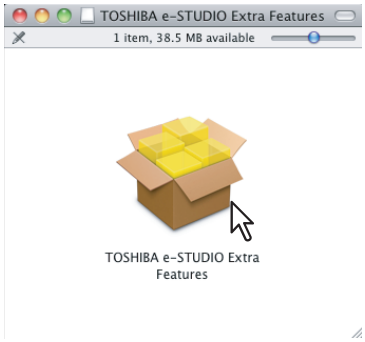
3 Double-click the GZIP file on the desktop.

- The Disk Image file (TOSHIBA_eS-Ex_Features.dmg) is extracted on the desktop.
- If the installer window appears, go to step 5.

4 Double-click the Disk Image file (TOSHIBA_eS-Ex_Features.dmg).

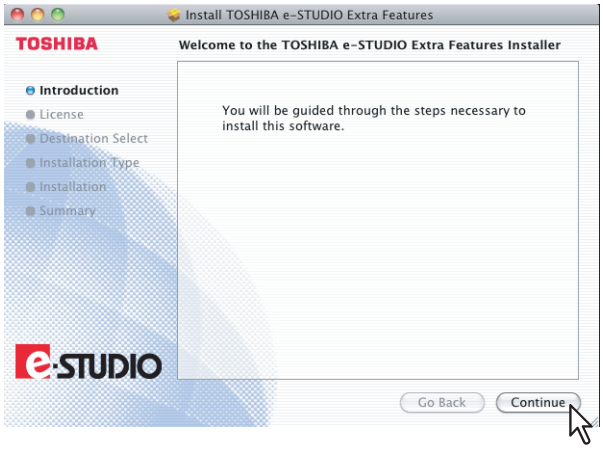
The installer window appears.

5 Double-click the icon in the installer window.



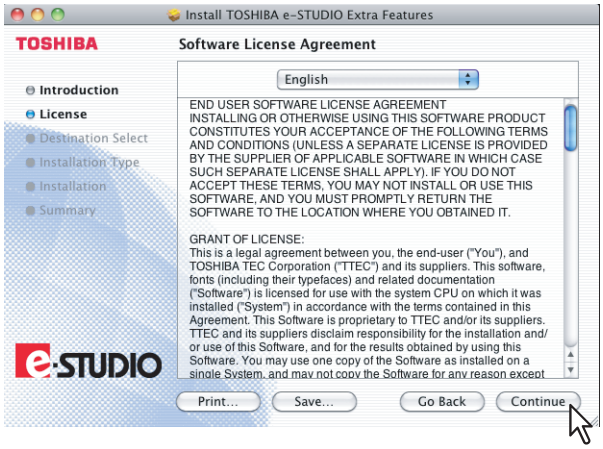
The installer starts.

6 Click [Continue].

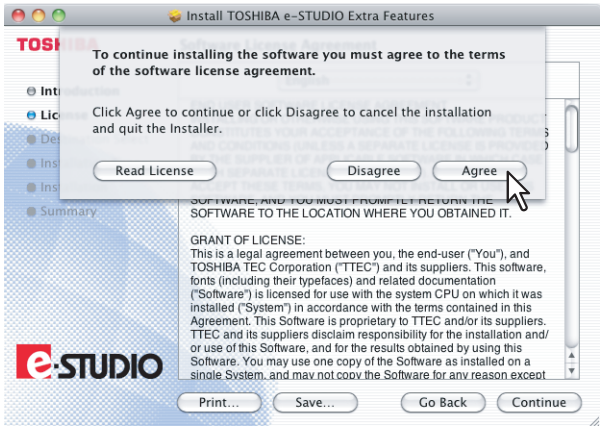


The [Software License Agreement] window is displayed.

7 Click [Continue].

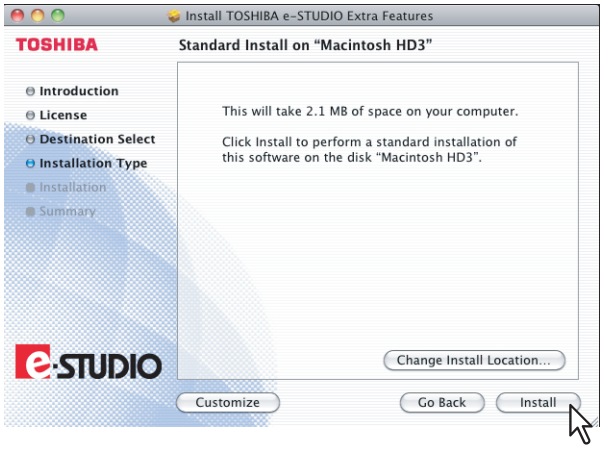


8 Click [Agree].



The [Standard Install] window is displayed.

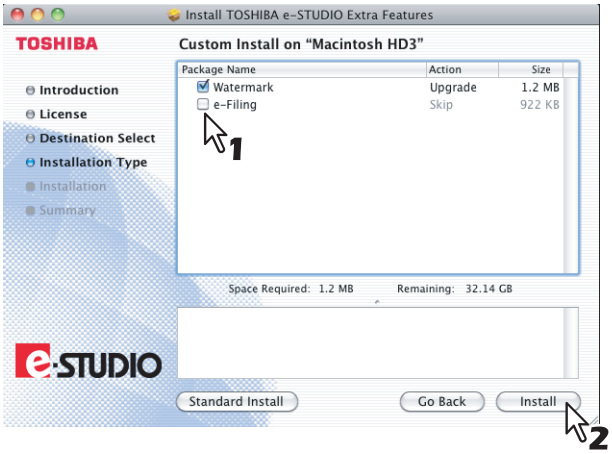
9 Click [Install].



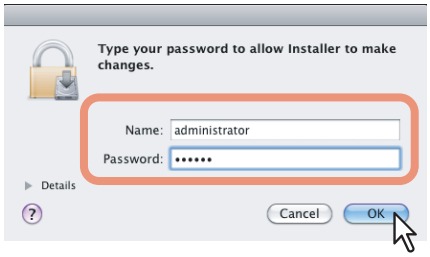
The [Authenticate] dialog box appears.

Tip

If you want to choose a custom installation, click [Customize]. In the [Custom Install] window, disable either "Watermark" or "e-Filing" and click [Install].

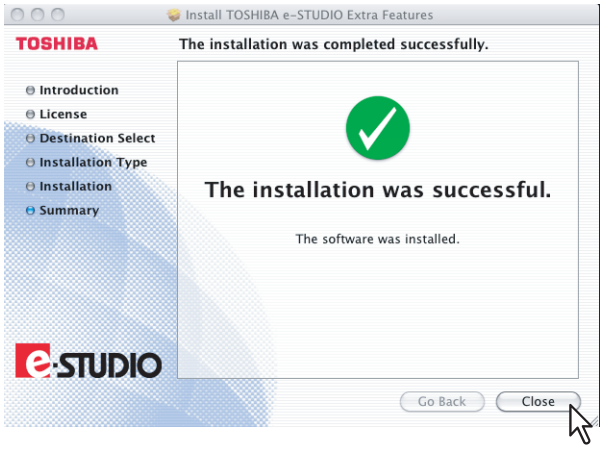


10 Enter the name and password, and click [OK].



It starts installing plug-ins.

11 **Click [Close] to close the installer window.**



12 **Delete the GZIP files and Installer files created on the desktop.**

■ Configuring the printer on Mac OS X 10.6.x

After you copy the PPD file to the library folder in the System Folder, you can configure the printer.
The equipment supports the following Macintosh Printing Services:

- **LPR printing**
  📖 P.126 “Configuring LPR printing (Mac OS X 10.6.x)”
- **IPP printing**
  📖 P.129 “Configuring IPP printing (Mac OS X 10.6.x)”
- **Bonjour printing**
  📖 P.131 “Configuring Bonjour printing (Mac OS X 10.6.x)”

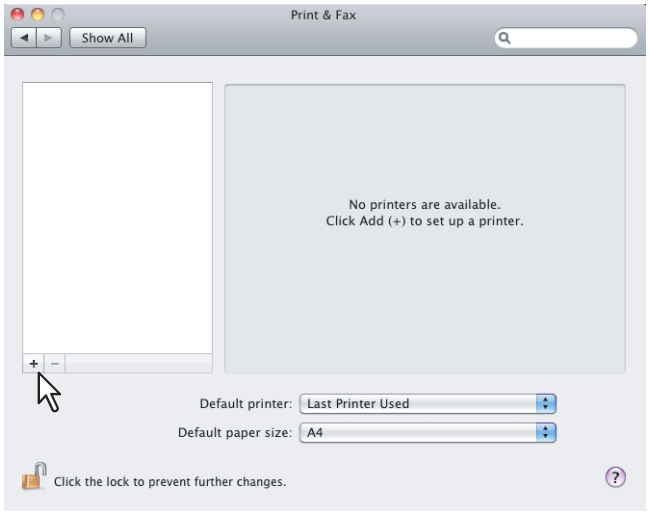
Tip

These Macintosh Printing Services are available when the equipment and your computer are connected over TCP/IP network.

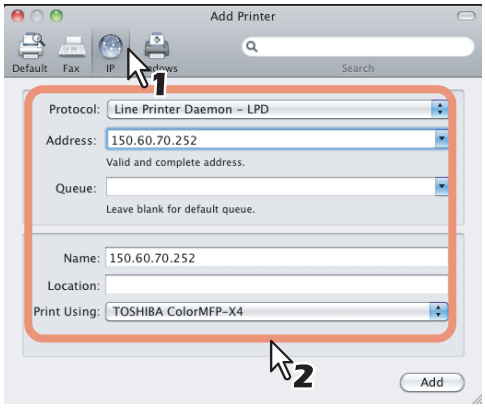
❑ Configuring LPR printing (Mac OS X 10.6.x)

1 **Open System Preferences and click [Print & Fax].**

2 Click [+].



3 Click [IP] and specify the items as described below.



Protocol: Line Printer Daemon - LPD
Address: <IP address or DNS name of this equipment>
Queue: print
Name: <Any Name>
Location: <Any Name>
Print Using: TOSHIBA ColorMFP-X4 USA (For North America) / TOSHIBA ColorMFP-X4 (For UK)

Tips

- In the [Name] box, the name that is entered in the [Address] box is automatically displayed.
- The way to select the PPD file differs depending on countries or regions as follows:
  - For North America
    Even when you enter the IP address or DNS name of this equipment in the [Address] box, the correct PPD file is not selected in the [Print Using] box. Therefore, select [Other] in the [Print Using] box, and select the PPD file (TOSHIBA_ColorMFP_X4USA.gz) from the [/Library/Printers/PPDs/Contents/Resources/en.lproj] folder.
  - For UK
    When you enter the IP address or DNS name of this equipment in the [Address] box, the correct PPD file is automatically selected in the [Print Using] box. If the correct PPD is not automatically selected, select [Select a driver to use] and select the PPD file displayed in the list.

4 Click [Add].

The [Installable Options] window appears.

5 Set the following options.

- **Model Selection**
  TOSHIBA e-STUDIO6550CSeries — Select this when the e-STUDIO5540C/6540C/6550C is used.
  TOSHIBA e-STUDIO4540CSeries — Select this when the e-STUDIO2040C/2540C/3040C/3540C/4540C is used.
- **Finisher**
  Not Installed — Select this if a finisher is not installed.
  Hanging Finisher — Select this when the Hanging Finisher is installed. (Only for the e-STUDIO4540C Series)
  Saddle Stitch Finisher — Select this when the Finisher or Saddle Stitch Finisher is installed.
  Saddle Stitch Finisher and Hole Punch — Select this when the Finisher or Saddle Stitch Finisher and Hole Punch unit are installed.

  Note

  Even if you select [Not Installed] for the Finisher option during print settings, the finisher options such as stapling and hole punching can be selected. If you select the finisher options for printing but the finisher is not installed, finisher settings will be ignored and printing will be performed correctly.

- **Drawers**
  Not Installed — Select this when no optional drawer is installed.
  Drawer 3 — Select this when the drawer 3 is installed.
  Drawer 3 and 4 — Select this when the drawer 3 and 4 are installed.
  LCF — Select this when the Large Capacity Feeder is installed.

  Note

  The Large Capacity Feeder is not available for some countries or regions.

- **External LCF (Only for the e-STUDIO6550C Series)**
  Not Installed — Select this when no External Large Capacity Feeder is installed.
  Installed — Select this when the External Large Capacity Feeder is installed.

6 Click [Continue].

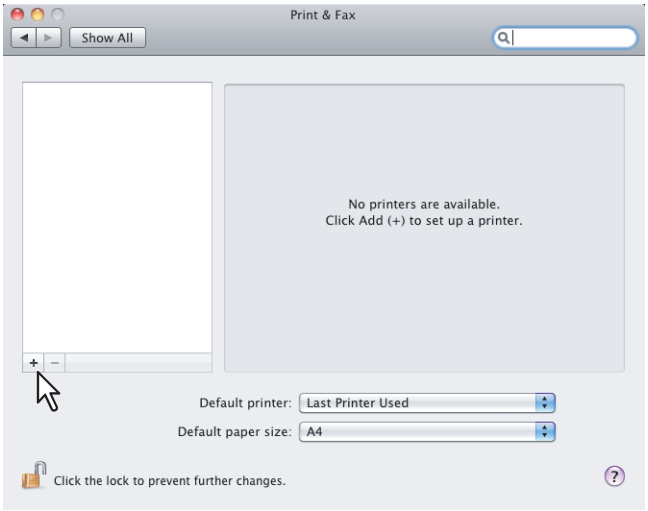
The printer is added to the Printer List.

❑ Configuring IPP printing (Mac OS X 10.6.x)

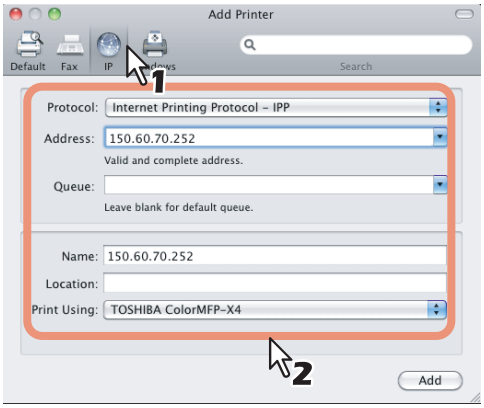
When you want to setup IPP print queue in the Mac OS X, follow the procedures below.

1 Open System Preferences and click [Print & Fax].

2 Click [+].



3 Click [IP] and specify the items as described below.



Protocol: Internet Printing Protocol - IPP
Address: <IP address or DNS name of this equipment>
Queue: Print
Name: <Any Name>
Location: <Any Name>
Print Using: TOSHIBA ColorMFP-X4 USA (For North America) / TOSHIBA ColorMFP-X4 (For UK)

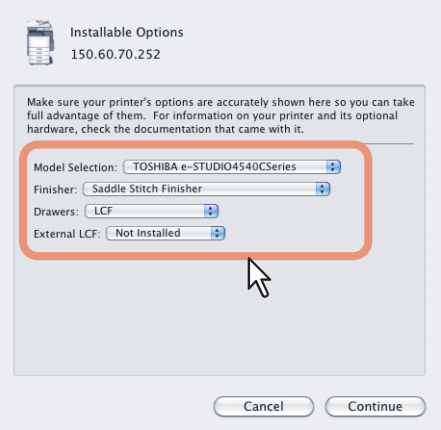
Tips

- In the [Name] box, the name that is entered in the [Address] box is automatically displayed.
- The way to select the PPD file differs depending on countries or regions as follows:
  - For North America
    Even when you enter the IP address or DNS name of this equipment in the [Address] box, the correct PPD file is not selected in the [Print Using] box. Therefore, select [Other] in the [Print Using] box, and select the PPD file (TOSHIBA_ColorMFP_X4USA.gz) from the [/Library/Printers/PPDs/Contents/Resources/en.lproj] folder.
  - For UK
    When you enter the IP address or DNS name of this equipment in the [Address] box, the correct PPD file is automatically selected in the [Print Using] box. If the correct PPD is not automatically selected, select [Select a driver to use] and select the PPD file displayed in the list.

4 Click [Add].

The Installable Options window appears.

5 Set the following options.



- **Model Selection**
  TOSHIBA e-STUDIO6550CSeries — Select this when the e-STUDIO5540C/6540C/6550C is used.
  TOSHIBA e-STUDIO4540CSeries — Select this when the e-STUDIO2040C/2540C/3040C/3540C/4540C is used.
- **Finisher**
  Not Installed — Select this if a finisher is not installed.
  Hanging Finisher — Select this when the Hanging Finisher is installed. (Only for the e-STUDIO4540C Series)
  Saddle Stitch Finisher — Select this when the Finisher or Saddle Stitch Finisher is installed.
  Saddle Stitch Finisher and Hole Punch — Select this when the Finisher or Saddle Stitch Finisher and Hole Punch unit are installed.

  Note

  Even if you select [Not Installed] for the Finisher option during print settings, the finisher options such as stapling and hole punching can be selected. If you select the finisher options for printing but the finisher is not installed, finisher settings will be ignored and printing will be performed correctly.

- **Drawers**
  Not Installed — Select this when no optional drawer is installed.
  Drawer 3 — Select this when the drawer 3 is installed.
  Drawer 3 and 4 — Select this when the drawer 3 and 4 are installed.
  LCF — Select this when the Large Capacity Feeder is installed.

  Note

  The Large Capacity Feeder is not available for some countries or regions.

- **External LCF (Only for the e-STUDIO6550C Series)**
  Not Installed — Select this when no External Large Capacity Feeder is installed.
  Installed — Select this when the External Large Capacity Feeder is installed.

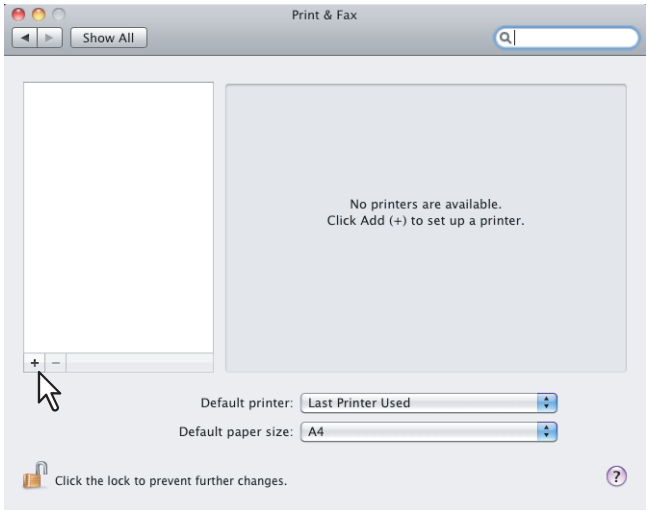
6 Click [Continue].

The printer is added to the Printer List.

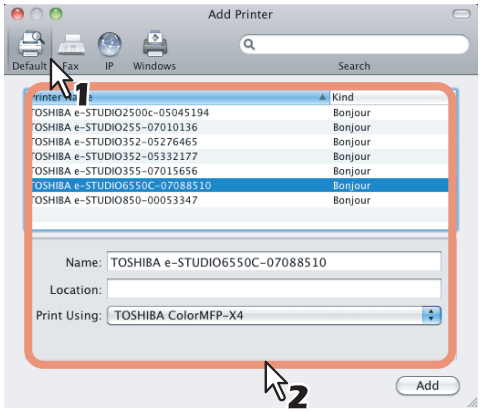
❑ Configuring Bonjour printing (Mac OS X 10.6.x)

1 Open System Preferences and click [Print & Fax].

2 Click [+].



3 Click [Default] and select the TOSHIBA MFP of the Bonjour connection displayed in the list.



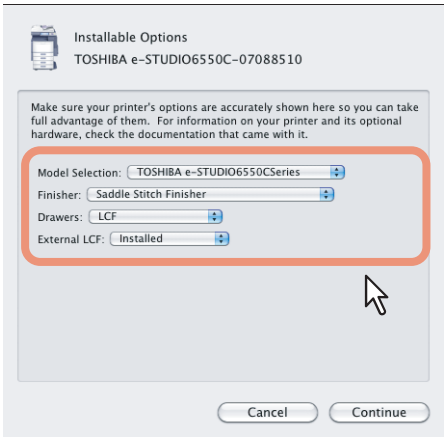
Tips

- In the [Name] box, the device name that you selected in the list is automatically displayed.
- The way to select the PPD file differs depending on countries or regions as follows:
  - For North America
    Even when you select the equipment from the list, the correct PPD file is not selected in the [Print Using] box. Therefore, select [Other] in the [Print Using] box, and select the PPD file (TOSHIBA_ColorMFP_X4USA.gz) from the [/Library/Printers/PPDs/Contents/Resources/en.lproj] folder.
  - For UK
    When you select the equipment from the list, the correct PPD file is automatically selected in the [Print Using] box. If the correct PPD is not automatically selected, select [Select a driver to use] and select the PPD file displayed in the list.

4 Click [Add].

The [Installable Options] window appears.

5 Set the following options.



- **Model Selection**
  TOSHIBA e-STUDIO6550CSeries — Select this when the e-STUDIO5540C/6540C/6550C is used.
  TOSHIBA e-STUDIO4540CSeries — Select this when the e-STUDIO2040C/2540C/3040C/3540C/4540C is used.
- **Finisher**
  Not Installed — Select this if a finisher is not installed.
  Hanging Finisher — Select this when the Hanging Finisher is installed. (Only for the e-STUDIO4540C Series)
  Saddle Stitch Finisher — Select this when the Finisher or Saddle Stitch Finisher is installed.
  Saddle Stitch Finisher and Hole Punch — Select this when the Finisher or Saddle Stitch Finisher and Hole Punch unit are installed.

Note

Even if you select [Not Installed] for the Finisher option during print settings, the finisher options such as stapling and hole punching can be selected. If you select the finisher options for printing but the finisher is not installed, finisher settings will be ignored and printing will be performed correctly.

- **Drawers**
  Not Installed — Select this when no optional drawer is installed.
  Drawer 3 — Select this when the drawer 3 is installed.
  Drawer 3 and 4 — Select this when the drawer 3 and 4 are installed.
  LCF — Select this when the Large Capacity Feeder is installed.

  Note

  The Large Capacity Feeder is not available for some countries or regions.

- **External LCF (Only for the e-STUDIO6550C Series)**
  Not Installed — Select this when no External Large Capacity Feeder is installed.
  Installed — Select this when the External Large Capacity Feeder is installed.

6 **Click [Continue].**
The printer is added to the Printer List.

■ Configuring the printer on Mac OS X 10.5.x

After you copy the PPD file to the library folder in the System Folder, you can configure the printer.
The equipment supports the following Macintosh Printing Services:

- **LPR printing**
  📖 P.134 “Configuring LPR printing (Mac OS X 10.5.x)”
- **IPP printing**
  📖 P.137 “Configuring IPP printing (Mac OS X 10.5.x)”
- **Bonjour printing**
  📖 P.139 “Configuring Bonjour printing (Mac OS X 10.5.x)”

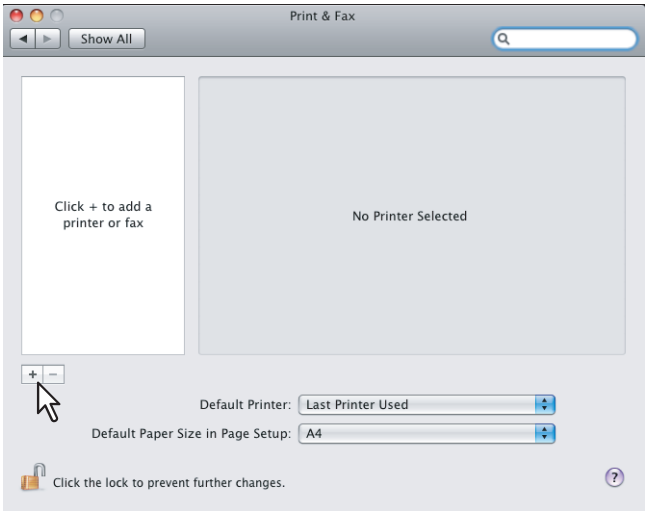
Tip

These Macintosh Printing Services are available when the equipment and your computer are connected over TCP/IP network.

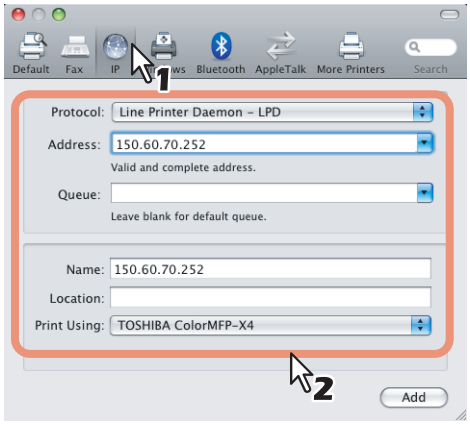
❑ Configuring LPR printing (Mac OS X 10.5.x)

1 Open System Preferences and click [Print & Fax].

2 Click [+].



3 Click [IP] and specify the items as described below.



Protocol: Line Printer Daemon - LPD
Address: <IP address or DNS name of this equipment>
Queue: print
Name: <Any Name>
Location: <Any Name>
Print Using: TOSHIBA ColorMFP-X4 USA (For North America) / TOSHIBA ColorMFP-X4 (For UK)

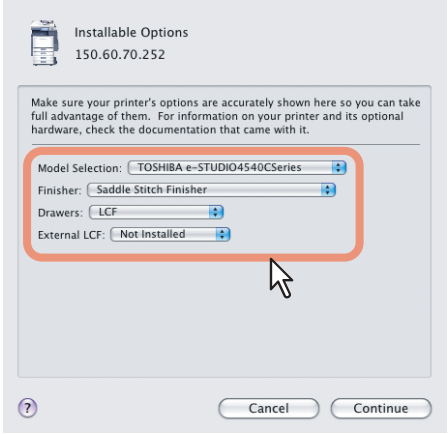
Tips

- In the [Name] box, the name that is entered in the [Address] box is automatically displayed.
- The way to select the PPD file differs depending on countries or regions as follows:
  - For North America
    Even when you enter the IP address or DNS name of this equipment in the [Address] box, the correct PPD file is not selected in the [Print Using] box. Therefore, select [Other] in the [Print Using] box, and select the PPD file (TOSHIBA_ColorMFP_X4USA.gz) from the [/Library/Printers/PPDs/Contents/Resources/en.lproj] folder.
  - For UK
    When you enter the IP address or DNS name of this equipment in the [Address] box, the correct PPD file is automatically selected in the [Print Using] box. If the correct PPD is not automatically selected, select [Select a driver to use] and select the PPD file displayed in the list.

4 Click [Add].

The [Installable Options] window appears.

5 Set the following options.



- **Model Selection**
  TOSHIBA e-STUDIO6550CSeries — Select this when the e-STUDIO5540C/6540C/6550C is used.
  TOSHIBA e-STUDIO4540CSeries — Select this when the e-STUDIO2040C/2540C/3040C/3540C/4540C is used.

- **Finisher**
  Not Installed — Select this if a finisher is not installed.
  Hanging Finisher — Select this when the Hanging Finisher is installed. (Only for the e-STUDIO4540C Series)
  Saddle Stitch Finisher — Select this when the Finisher or Saddle Stitch Finisher is installed.
  Saddle Stitch Finisher and Hole Punch — Select this when the Finisher or Saddle Stitch Finisher and Hole Punch unit are installed.

  Note

  Even if you select [Not Installed] for the Finisher option during print settings, the finisher options such as stapling and hole punching can be selected. If you select the finisher options for printing but the finisher is not installed, finisher settings will be ignored and printing will be performed correctly.

- **Drawers**
  Not Installed — Select this when no optional drawer is installed.
  Drawer 3 — Select this when the drawer 3 is installed.
  Drawer 3 and 4 — Select this when the drawer 3 and 4 are installed.
  LCF — Select this when the Large Capacity Feeder is installed.

  Note

  The Large Capacity Feeder is not available for some countries or regions.

- **External LCF (Only for the e-STUDIO6550C Series)**
  Not Installed — Select this when no External Large Capacity Feeder is installed.
  Installed — Select this when the External Large Capacity Feeder is installed.

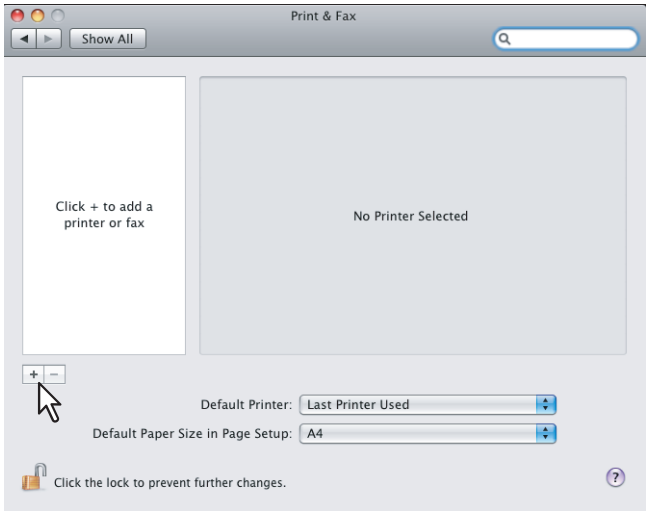
6 **Click [Continue].**
The printer is added to the Printer List.

❑ Configuring IPP printing (Mac OS X 10.5.x)

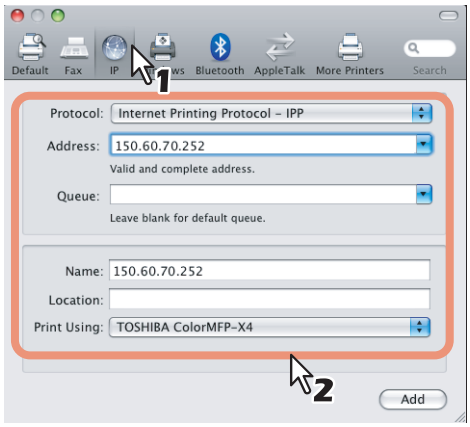
When you want to setup IPP print queue in the Mac OS X, follow the procedures below.

1 Open System Preferences and click [Print & Fax].

2 Click [+].



3 Click [IP] and specify the items as described below.



Protocol: Internet Printing Protocol - IPP
Address: <IP address or DNS name of this equipment>
Queue: Print
Name: <Any Name>
Location: <Any Name>
Print Using: TOSHIBA ColorMFP-X4 USA (For North America) / TOSHIBA ColorMFP-X4 (For UK)

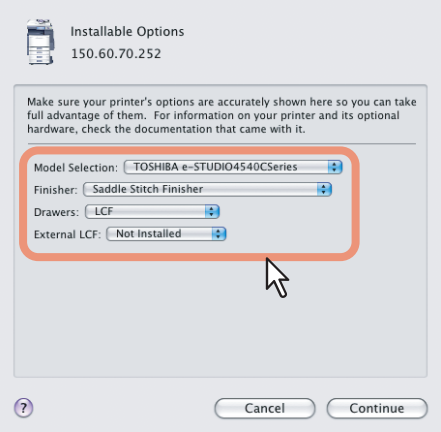
Tips

- In the [Name] box, the name that is entered in the [Address] box is automatically displayed.
- The way to select the PPD file differs depending on countries or regions as follows:
  - For North America
    Even when you enter the IP address or DNS name of this equipment in the [Address] box, the correct PPD file is not selected in the [Print Using] box. Therefore, select [Other] in the [Print Using] box, and select the PPD file (TOSHIBA_ColorMFP_X4USA.gz) from the [/Library/Printers/PPDs/Contents/Resources/en.lproj] folder.
  - For UK
    When you enter the IP address or DNS name of this equipment in the [Address] box, the correct PPD file is automatically selected in the [Print Using] box. If the correct PPD is not automatically selected, select [Select a driver to use] and select the PPD file displayed in the list.

4 Click [Add].

The Installable Options window appears.

5 Set the following options.



- **Model Selection**
  TOSHIBA e-STUDIO6550CSeries — Select this when the e-STUDIO5540C/6540C/6550C is used.
  TOSHIBA e-STUDIO4540CSeries — Select this when the e-STUDIO2040C/2540C/3040C/3540C/4540C is used.
- **Finisher**
  Not Installed — Select this if a finisher is not installed.
  Hanging Finisher — Select this when the Hanging Finisher is installed. (Only for the e-STUDIO4540C Series)
  Saddle Stitch Finisher — Select this when the Finisher or Saddle Stitch Finisher is installed.
  Saddle Stitch Finisher and Hole Punch — Select this when the Finisher or Saddle Stitch Finisher and Hole Punch unit are installed.

  Note

  Even if you select [Not Installed] for the Finisher option during print settings, the finisher options such as stapling and hole punching can be selected. If you select the finisher options for printing but the finisher is not installed, finisher settings will be ignored and printing will be performed correctly.

- **Drawers**
  Not Installed — Select this when no optional drawer is installed.
  Drawer 3 — Select this when the drawer 3 is installed.
  Drawer 3 and 4 — Select this when the drawer 3 and 4 are installed.
  LCF — Select this when the Large Capacity Feeder is installed.

  Note

  The Large Capacity Feeder is not available for some countries or regions.

- **External LCF (Only for the e-STUDIO6550C Series)**
  Not Installed — Select this when no External Large Capacity Feeder is installed.
  Installed — Select this when the External Large Capacity Feeder is installed.

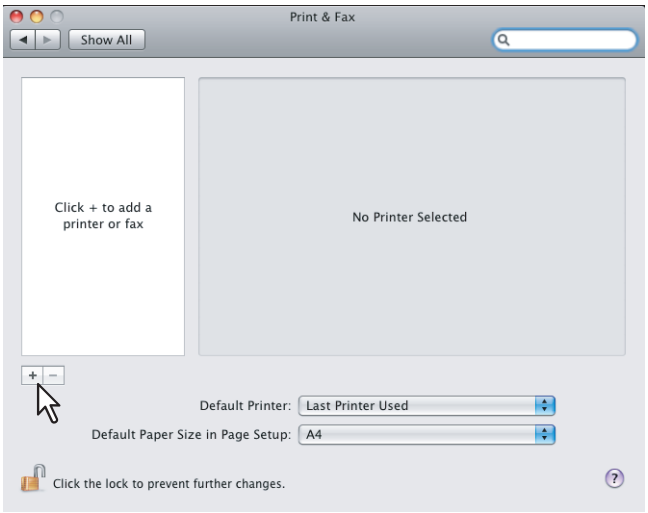
6 Click [Continue].

The printer is added to the Printers List.

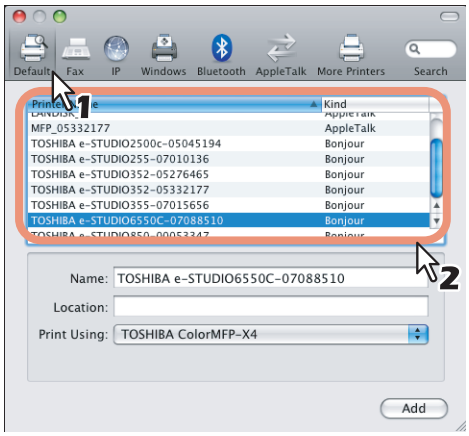
❑ Configuring Bonjour printing (Mac OS X 10.5.x)

1 Open System Preferences and click [Print & Fax].

2 Click [+].



3 Click [Default] and select the TOSHIBA MFP of the Bonjour connection displayed in the list.



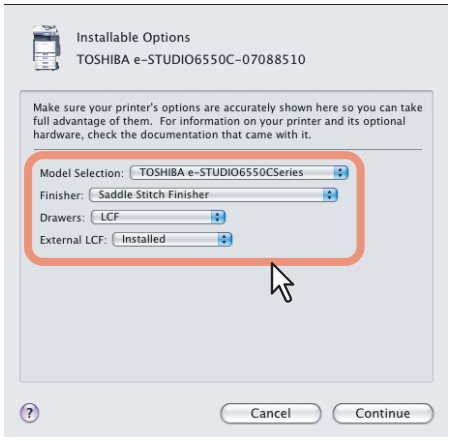
Tips

- In the [Name] box, the device name that you selected in the list is automatically displayed.
- The way to select the PPD file differs depending on countries or regions as follows:
  - For North America
    Even when you select the equipment from the list, the correct PPD file is not selected in the [Print Using] box. Therefore, select [Other] in the [Print Using] box, and select the PPD file (TOSHIBA_ColorMFP_X4USA.gz) from the [/Library/Printers/PPDs/Contents/Resources/en.lproj] folder.
  - For UK
    When you select the equipment from the list, the correct PPD file is automatically selected in the [Print Using] box. If the correct PPD is not automatically selected, select [Select a driver to use] and select the PPD file displayed in the list.

4 Click [Add].

The [Installable Options] window appears.

5 Set the following options.



- **Model Selection**
  TOSHIBA e-STUDIO6550CSeries — Select this when the e-STUDIO5540C/6540C/6550C is used.
  TOSHIBA e-STUDIO4540CSeries — Select this when the e-STUDIO2040C/2540C/3040C/3540C/4540C is used.
- **Finisher**
  Not Installed — Select this if a finisher is not installed.
  Hanging Finisher — Select this when the Hanging Finisher is installed. (Only for the e-STUDIO4540C Series)
  Saddle Stitch Finisher — Select this when the Finisher or Saddle Stitch Finisher is installed.
  Saddle Stitch Finisher and Hole Punch — Select this when the Finisher or Saddle Stitch Finisher and Hole Punch unit are installed.

Note

Even if you select [Not Installed] for the Finisher option during print settings, the finisher options such as stapling and hole punching can be selected. If you select the finisher options for printing but the finisher is not installed, finisher settings will be ignored and printing will be performed correctly.

- **Drawers**
  Not Installed — Select this when no optional drawer is installed.
  Drawer 3 — Select this when the drawer 3 is installed.
  Drawer 3 and 4 — Select this when the drawer 3 and 4 are installed.
  LCF — Select this when the Large Capacity Feeder is installed.

  Note

  The Large Capacity Feeder is not available for some countries or regions.

- **External LCF (Only for the e-STUDIO6550C Series)**
  Not Installed — Select this when no External Large Capacity Feeder is installed.
  Installed — Select this when the External Large Capacity Feeder is installed.

6 **Click [Continue].**
The printer is added to the Printers List.

■ Configuring the printer on Mac OS X 10.4.x

After you copy the PPD file to the library folder in the System Folder, you can configure the printer.
The equipment supports the following Macintosh Printing Services:

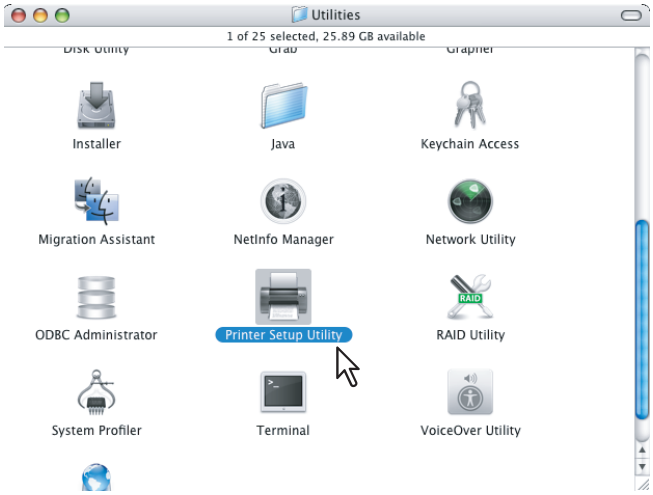
- **LPR printing**
  📖 P.142 “Configuring LPR printing (Mac OS X 10.4.x)”
- **IPP printing**
  📖 P.145 “Configuring IPP printing (Mac OS X 10.4.x)”
- **Bonjour printing**
  📖 P.147 “Configuring Bonjour printing (Mac OS X 10.4.x)”

Tip

These Macintosh Printing Services are available when the equipment and your computer are connected over TCP/IP network.

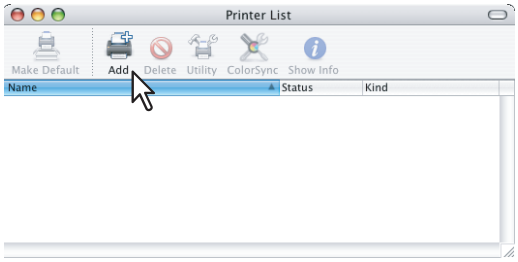
❑ Configuring LPR printing (Mac OS X 10.4.x)

1 Start the Printer Setup Utility located in the “Applications/Utilities” folder in the Boot Disk.

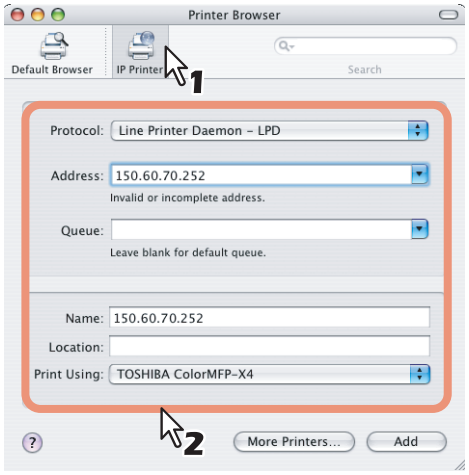


The [Printer List] dialog box appears.

2 Click [Add].



3 Click [IP Printer] and specify the items as described below.



Protocol: Line Printer Daemon - LPD
Address: <IP address or DNS name of this equipment>
Queue: print
Name: <Any Name>
Location: <Any Name>
Print Using: TOSHIBA ColorMFP-X4 USA (For North America) / TOSHIBA ColorMFP-X4 (For UK)

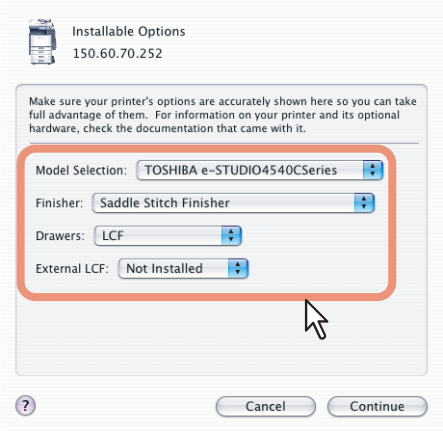
Tips

- In the [Name] box, the name that is entered in the [Address] box is automatically displayed.
- When you enter the IP address or DNS name of this equipment in the [Address] box, the correct PPD file is automatically selected in the [Print Using] box. If the correct PPD is not automatically selected, select [TOSHIBA] in the [Print Using] box and select the PPD file displayed in the list.

4 Click [Add].

The [Installable Options] window appears.

5 Set the following options.



- **Model Selection**
  TOSHIBA e-STUDIO6550CSeries — Select this when the e-STUDIO5540C/6540C/6550C is used.
  TOSHIBA e-STUDIO4540CSeries — Select this when the e-STUDIO2040C/2540C/3040C/3540C/4540C is used.
- **Finisher**
  Not Installed — Select this if a finisher is not installed.
  Hanging Finisher — Select this when the Hanging Finisher is installed. (Only for the e-STUDIO4540C Series)
  Saddle Stitch Finisher — Select this when the Finisher or Saddle Stitch Finisher is installed.
  Saddle Stitch Finisher and Hole Punch — Select this when the Finisher or Saddle Stitch Finisher and Hole Punch unit are installed.

Note

Even if you select [Not Installed] for the Finisher option during print settings, the finisher options such as stapling and hole punching can be selected. If you select the finisher options for printing but the finisher is not installed, finisher settings will be ignored and printing will be performed correctly.

- **Drawers**
  Not Installed — Select this when no optional drawer is installed.
  Drawer 3 — Select this when the drawer 3 is installed.
  Drawer 3 and 4 — Select this when the drawer 3 and 4 are installed.
  LCF — Select this when the Large Capacity Feeder is installed.

  Note

  The Large Capacity Feeder is not available for some countries or regions.

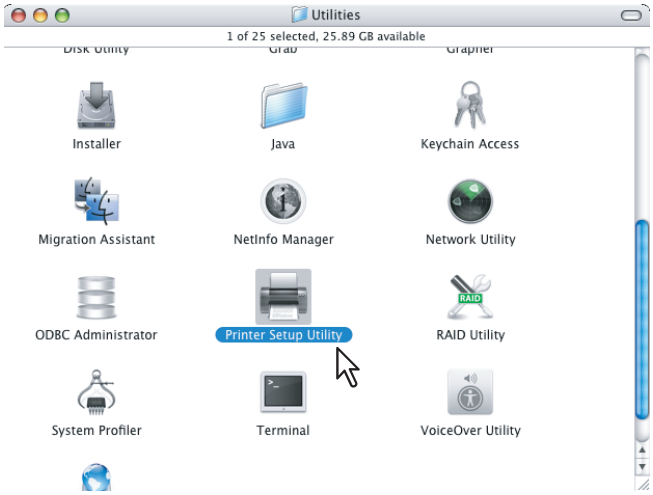
- **External LCF (Only for the e-STUDIO6550C Series)**
  Not Installed — Select this when no External Large Capacity Feeder is installed.
  Installed — Select this when the External Large Capacity Feeder is installed.

6 **Click [Continue].**
The printer is added to the Printer List.

❑ Configuring IPP printing (Mac OS X 10.4.x)

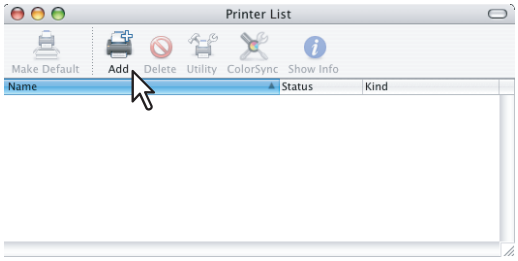
When you want to setup IPP print queue in the Mac OS X, follow the procedures below.

1 Start the Printer Setup Utility located in the "Applications/Utilities" folder in the Boot Disk.

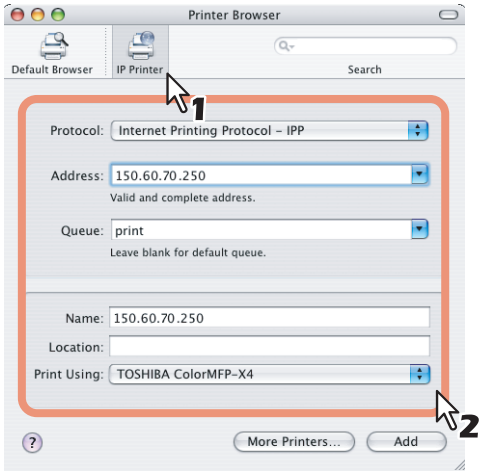


The [Printer List] dialog box appears.

2 Click [Add].



3 Click [IP Printer] and specify the items as described below.



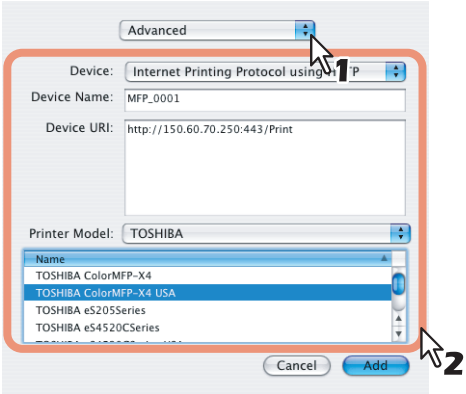
Protocol: Internet Printing Protocol - IPP
Address: <IP address or DNS name of this equipment>
Queue: Print
Name: <Any Name>
Location: <Any Name>
Print Using: TOSHIBA ColorMFP-X4 USA (For North America) / TOSHIBA ColorMFP-X4 (For UK)

Tips

- In the [Name] box, the name that is entered in the [Address] box is automatically displayed.
- When you enter the IP address or DNS name of this equipment in the [Address] box, the correct PPD file is automatically selected in the [Print Using] box. If the correct PPD is not automatically selected, select [TOSHIBA] in the [Print Using] box and select the PPD file displayed in the list.

Notes

- If you delete a self-signed certificate registered to this equipment while SSL for HTTP network service is enabled, access to the TopAccess is refused. In this case, temporarily disable SSL for HTTP network service on the control panel and then access the TopAccess. Then enable SSL again.
  For HTTP network service, refer to the ***TopAccess Guide***. For instructions on how to set it on the control panel, refer to the ***MFP Management Guide***.
- When IPP/SSL is enabled, click [More Printers] while pressing the [option] key. In the displayed dialog box, select “Advanced” and specify as follows:

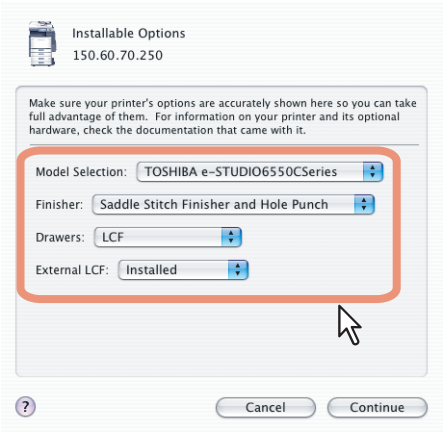


- **Device**: Internet Printing Protocol using HTTP
- **Device Name**: <Any Name>
- **Device URI**: http://<IP address>:443/Print
- **Printer Model**: TOSHIBA
- **PPD**: TOSHIBA ColorMFP-X4 USA (For North America) / TOSHIBA ColorMFP-X4 (For UK)

4 Click [Add].

The [Installable Options] window appears.

5 Set the following options.



- **Model Selection**
  TOSHIBA e-STUDIO6550CSeries — Select this when the e-STUDIO5540C/6540C/6550C is used.
  TOSHIBA e-STUDIO4540CSeries — Select this when the e-STUDIO2040C/2540C/3040C/3540C/4540C is used.
- **Finisher**
  Not Installed — Select this if a finisher is not installed.
  Hanging Finisher — Select this when the Hanging Finisher is installed. (Only for the e-STUDIO4540C Series)
  Saddle Stitch Finisher — Select this when the Finisher or Saddle Stitch Finisher is installed.
  Saddle Stitch Finisher and Hole Punch — Select this when the Finisher or Saddle Stitch Finisher and Hole Punch unit are installed.

Note

Even if you select [Not Installed] for the Finisher option during print settings, the finisher options such as stapling and hole punching can be selected. If you select the finisher options for printing but the finisher is not installed, finisher settings will be ignored and printing will be performed correctly.

- **Drawers**
  Not Installed — Select this when no optional drawer is installed.
  Drawer 3 — Select this when the drawer 3 is installed.
  Drawer 3 and 4 — Select this when the drawer 3 and 4 are installed.
  LCF — Select this when the Large Capacity Feeder is installed.

  Note

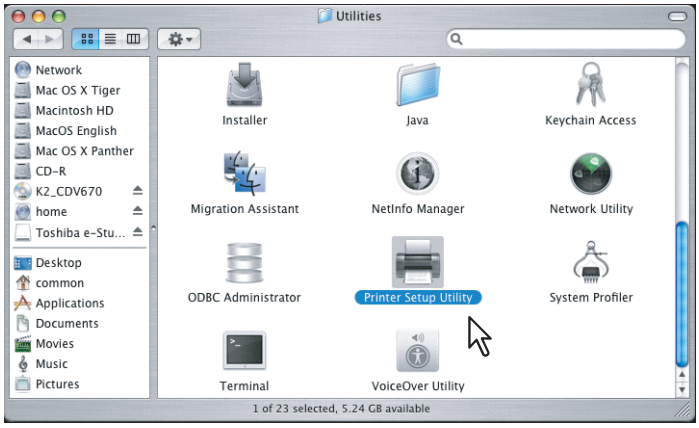
  The Large Capacity Feeder is not available for some countries or regions.

- **External LCF (Only for the e-STUDIO6550C Series)**
  Not Installed — Select this when no External Large Capacity Feeder is installed.
  Installed — Select this when the External Large Capacity Feeder is installed.

6 **Click [Continue].**
The printer is added to the Printer List.

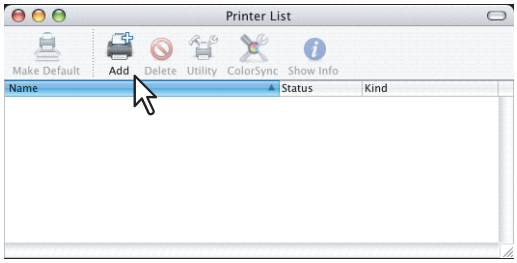
❑ Configuring Bonjour printing (Mac OS X 10.4.x)

1 **Start the Printer Setup Utility located in the "Applications/Utilities" folder in the Boot Disk.**

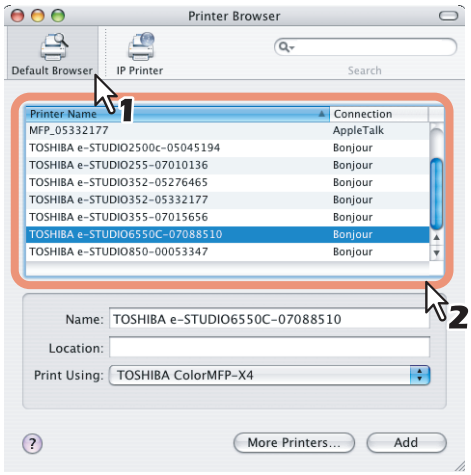


The [Printer List] dialog box appears.

2 **Click [Add].**



3 Click [Default Browser] and select the equipment of the Bonjour connection displayed in the list.



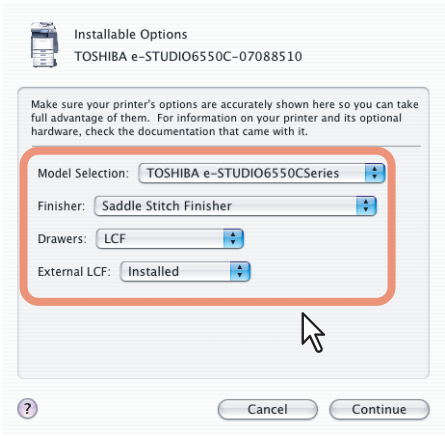
Tips

- In the [Name] box, the device name that you selected in the list is automatically displayed.
- When you select the equipment in the list, the correct PPD (For North America: TOSHIBA ColorMFP-X4 USA / For UK: TOSHIBA ColorMFP-X4) file is automatically selected in the [Print Using] box. If the correct PPD is not automatically selected, select [TOSHIBA] in the [Print Using] box and select the PPD file displayed in the list.

4 Click [Add].

The [Installable Options] window appears.

5 Set the following options.



- **Model Selection**
  TOSHIBA e-STUDIO6550CSeries — Select this when the e-STUDIO5540C/6540C/6550C is used.
  TOSHIBA e-STUDIO4540CSeries — Select this when the e-STUDIO2040C/2540C/3040C/3540C/4540C is used.
- **Finisher**
  Not Installed — Select this if a finisher is not installed.
  Hanging Finisher — Select this when the Hanging Finisher is installed. (Only for the e-STUDIO4540C Series)
  Saddle Stitch Finisher — Select this when the Finisher or Saddle Stitch Finisher is installed.
  Saddle Stitch Finisher and Hole Punch — Select this when the Finisher or Saddle Stitch Finisher and Hole Punch unit are installed.

Note

Even if you select [Not Installed] for the Finisher option during print settings, the finisher options such as stapling and hole punching can be selected. If you select the finisher options for printing but the finisher is not installed, finisher settings will be ignored and printing will be performed correctly.

- **Drawers**
  Not Installed — Select this when no optional drawer is installed.
  Drawer 3 — Select this when the drawer 3 is installed.
  Drawer 3 and 4 — Select this when the drawer 3 and 4 are installed.
  LCF — Select this when the Large Capacity Feeder is installed.

  Note

  The Large Capacity Feeder is not available for some countries or regions.

- **External LCF (Only for the e-STUDIO6550C Series)**
  Not Installed — Select this when no External Large Capacity Feeder is installed.
  Installed — Select this when the External Large Capacity Feeder is installed.

6 **Click [Continue].**
The printer is added to the Printer List.

■ Configuring the printer on Mac OS X 10.2.4 to 10.3.x

After you copy the PPD file to the library folder in the System Folder, you can configure the printer.
The equipment supports the following Macintosh Printing Services:

- **LPR printing**
  📖 P.150 “Configuring LPR printing (Mac OS X 10.2.4 to 10.3.x)”
- **AppleTalk printing**
  📖 P.152 “Configuring AppleTalk printing (Mac OS X 10.2.4 to 10.3.x)”
- **IPP printing**
  📖 P.154 “Configuring IPP printing (Mac OS X 10.2.4 to 10.3.x)”
- **Bonjour printing**
  📖 P.156 “Configuring Bonjour printing (Mac OS X 10.2.4 to 10.3.x)”

Tips

- LPR printing, IPP printing, and Bonjour printing are available when the equipment and your computer are connected over TCP/IP network.
- AppleTalk printing is available when the equipment and your computer are connected over AppleTalk network.

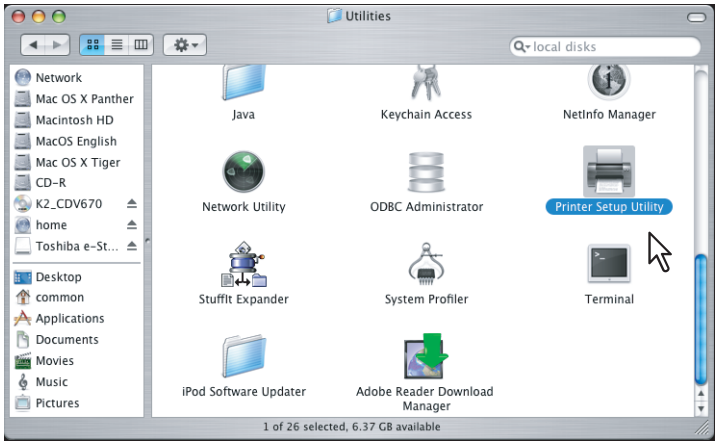
❑ Configuring LPR printing (Mac OS X 10.2.4 to 10.3.x)

The following describes an operation on Mac OS X 10.3.x. The procedure is the same when Mac OS X 10.2.4 to 10.2.8 is used.

1 Start the Print Center (for Mac OS X 10.2.4 to 10.2.8) or Printer Setup Utility (for Mac OS X 10.3.x) located in the “Applications/Utilities” folder in the Boot Disk.

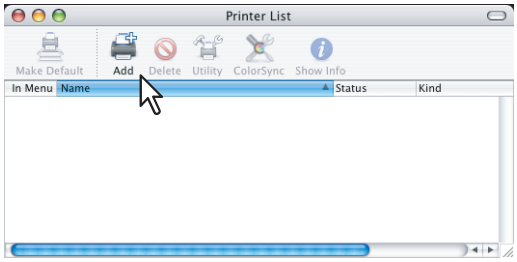
Mac OS X 10.2.4 to 10.2.8

Mac OS X 10.3.x

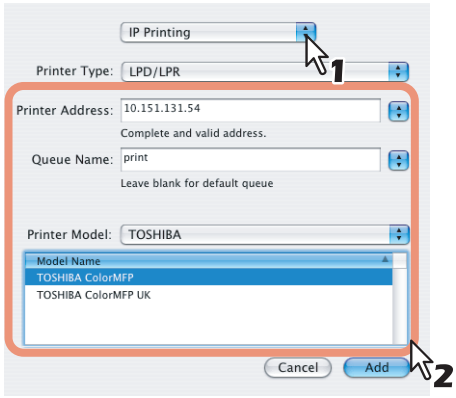


The [Printer List] dialog box appears.

2 Click [Add].



3 Select [IP Printing] and specify the items as described below.



Printer Type: LPD/LPR
Printer Address: <IP address or DNS name of this equipment>
Queue Name: print
Printer Model: TOSHIBA
PPD: TOSHIBA ColorMFP (For North America) / TOSHIBA ColorMFP UK (For UK)

Notes

- For Mac OS X 10.2.4 to 10.2.8, the [Printer Type] box is not displayed.
- For Mac OS X 10.2.4 to 10.2.8, clear the [Use default queue on server] box.

4 Click [Add].

The printer is added to the Printer List.

5 Continue the procedure to configure the installable options.

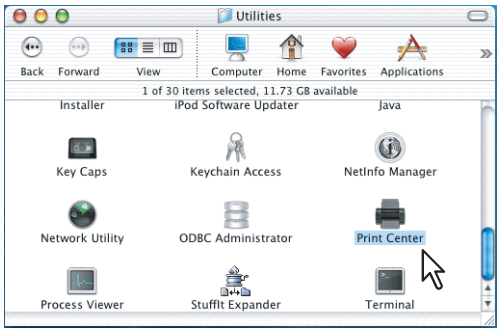
P.157 “Configuring the installable options”

❑ Configuring AppleTalk printing (Mac OS X 10.2.4 to 10.3.x)

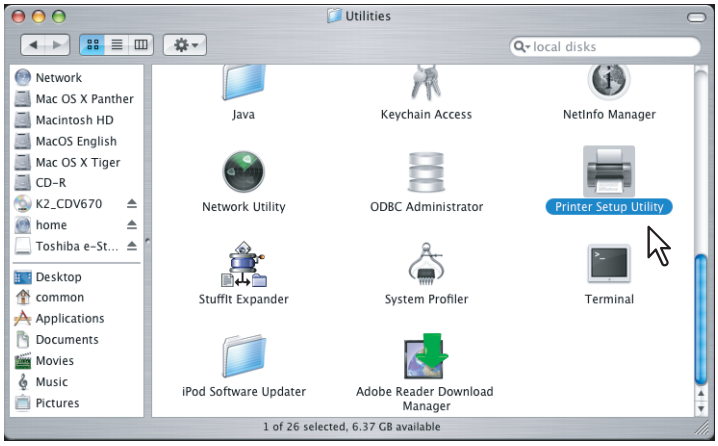
The following describes an operation on Mac OS X 10.3.x. The procedure is the same when Mac OS X 10.2.4 to 10.2.8 is used.

1 Start the Print Center (for Mac OS X 10.2.4 to 10.2.8) or Printer Setup Utility (for Mac OS X 10.3.x) located in the “Applications/Utilities” folder in the Boot Disk.

Mac OS X 10.2.4 to 10.2.8

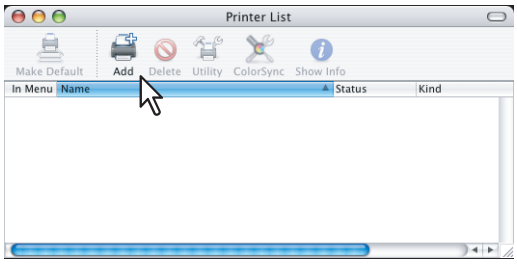


Mac OS X 10.3.x

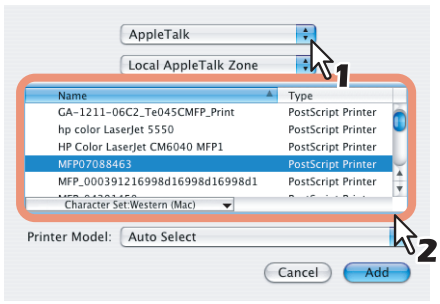


The [Printer List] dialog box appears.

2 Click [Add].

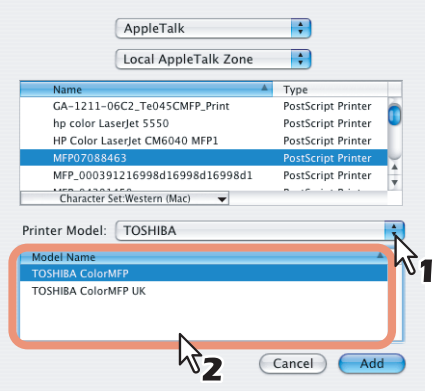


3 Select [AppleTalk] and select the zone name that this equipment is located. Then select the equipment displayed in the list.



If the AppleTalk network is not configured with a zone, select [Local AppleTalk zone].

4 **Select [TOSHIBA] in the [Printer Model] box, and select the PPD file.**



5 **Click [Add].**

The printer is added to the Printer List.

6 **Continue the procedure to configure the installable options.**

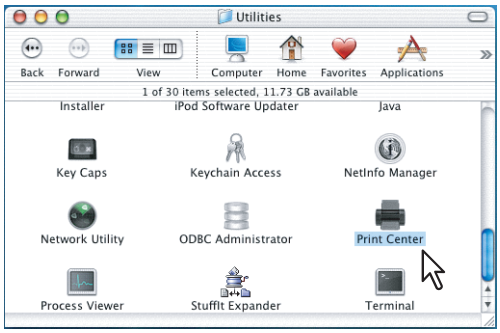
📖 P.157 “Configuring the installable options”

❑ Configuring IPP printing (Mac OS X 10.2.4 to 10.3.x)

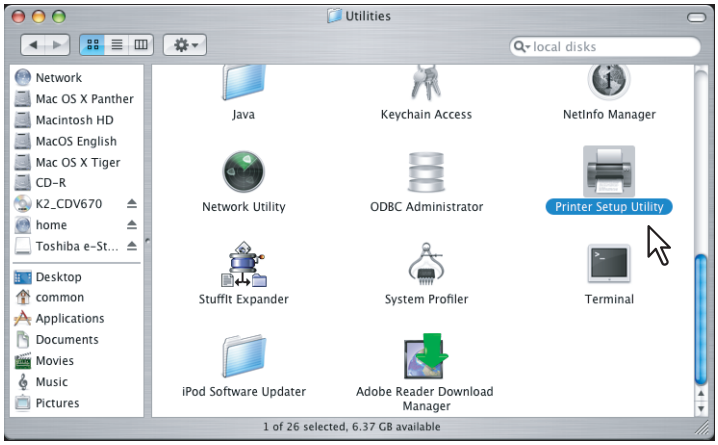
When you want to setup IPP print queue in the Mac OS X, follow the procedures below.
The following describes an operation on Mac OS X 10.3.x. The procedure is the same when Mac OS X 10.2.4 to 10.2.8 is used.

1 Start the Print Center (for Mac OS X 10.2.4 to 10.2.8) or Printer Setup Utility (for Mac OS X 10.3.x) located in the “Applications/Utilities” folder in the Boot Disk.

Mac OS X 10.2.4 to 10.2.8

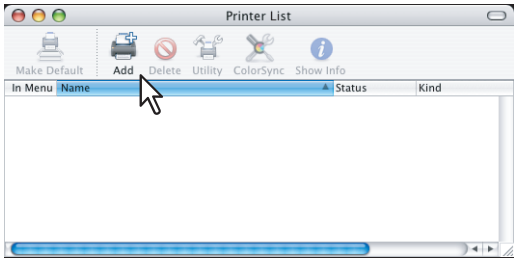


Mac OS X 10.3.x



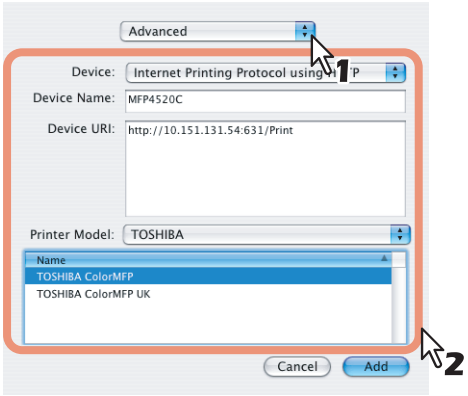
The [Printer List] dialog box appears.

2 Press and hold the [option] key in the keyboard and click [Add] in the Printer List Window.



The print list is displayed with all the print options.

3 Select [Advanced] and specify the items as described below.



Device: Mac OS X 10.2.x: Internet Printing Protocol (http)
Mac OS X 10.3.x: Internet Printing Protocol using HTTP
Device Name: <Any Name>
Device URI: http://<IP address>:631/Print
Printer Model: TOSHIBA
PPD: TOSHIBA ColorMFP (For North America) / TOSHIBA ColorMFP UK (For UK)

Notes

- If you delete a self-signed certificate registered to this equipment while SSL for HTTP network service is enabled, access to the TopAccess is refused. In this case, temporarily disable SSL for HTTP network service on the control panel and then access the TopAccess. Then enable SSL again.
  For HTTP network service, refer to the ***TopAccess Guide***. For instructions on how to set it on the control panel, refer to the ***MFP Management Guide***.
- When IPP/SSL is enabled, specify as follows:
  - **Device**: Internet Printing Protocol (http)
  - **Device URI**: http://<IP address>:443/Print

4 Click [Add].

The printer is added to the Printer List.

5 Continue the procedure to configure the installable options.

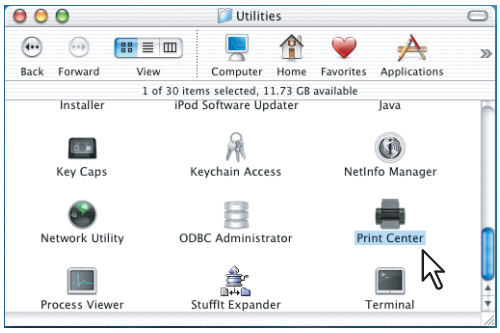
📖 P.157 “Configuring the installable options”

❑ Configuring Bonjour printing (Mac OS X 10.2.4 to 10.3.x)

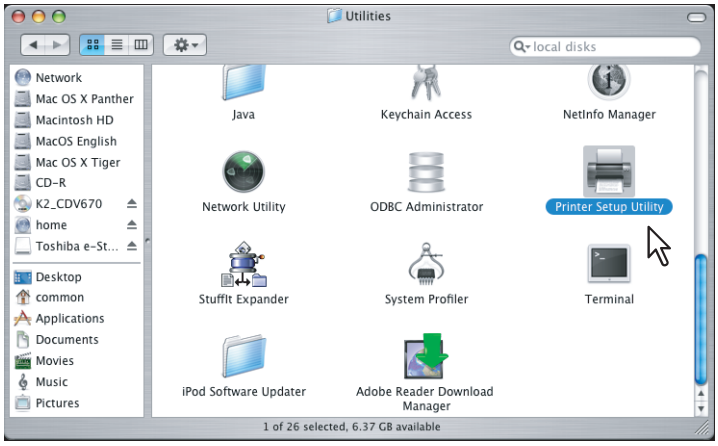
The following describes an operation on Mac OS X 10.3.x. The procedure is the same when Mac OS X 10.2.4 to 10.2.8 is used.

1 Start the Print Center (for Mac OS X 10.2.4 to 10.2.8) or Printer Setup Utility (for Mac OS X 10.3.x) located in the “Applications/Utilities” folder in the Boot Disk.

Mac OS X 10.2.4 to 10.2.8

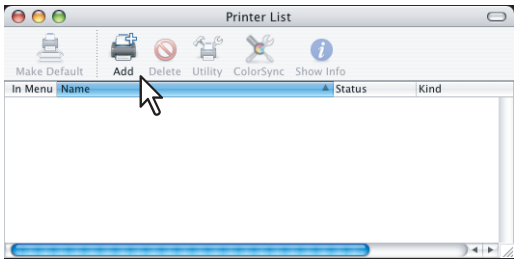


Mac OS X 10.3.x

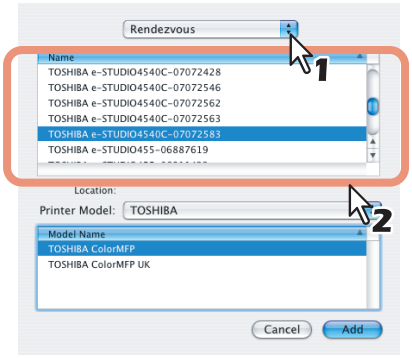


The [Printer List] dialog box appears.

2 Click [Add].



3 **Select [Rendezvous] and select the equipment displayed in the list.**



Tip

When you select the equipment in the name list, the correct PPD file is automatically selected. If the correct PPD is not automatically selected, select [TOSHIBA] in the [Printer Model] box and select the PPD file displayed in the list.

Note

In Mac OS X 10.2.4 to 10.3.x, the [Bonjour] is named as [Rendezvous].

4 **Click [Add].**

The printer is added to the Printer List.

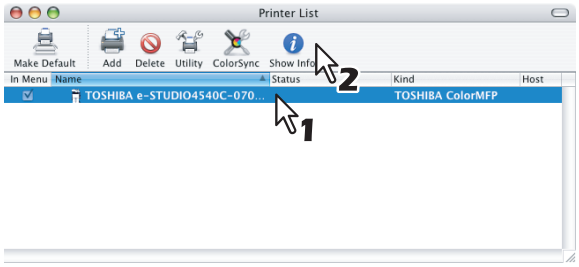
5 **Continue the procedure to configure the installable options.**

P.157 “Configuring the installable options”

❑ Configuring the installable options

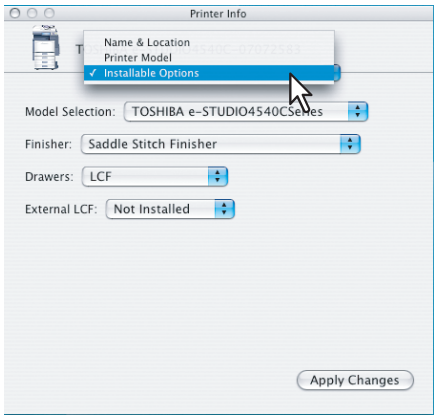
The following describes an operation on Mac OS X 10.3.x. The procedure is the same when Mac OS X 10.2.4 to 10.2.8 is used.

1 **In the [Printer List] dialog box, select the printer and then click [Show Info].**



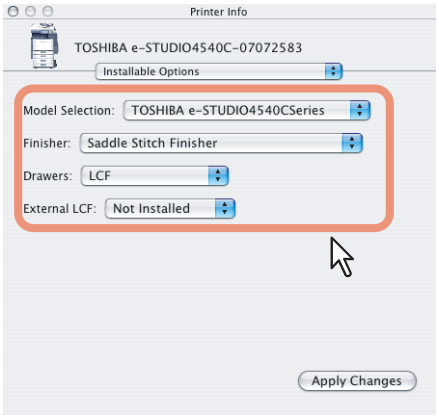
The [Printer Info] dialog box appears.

2 **Select [Installable Options].**



The [Installable Options] window is displayed.

3 Set the following options.



- **Model Selection**
  TOSHIBA e-STUDIO6550CSeries — Select this when the e-STUDIO5540C/6540C/6550C is used.
  TOSHIBA e-STUDIO4540CSeries — Select this when the e-STUDIO2040C/2540C/3040C/3540C/4540C is used.
- **Finisher**
  Not Installed — Select this if a finisher is not installed.
  Hanging Finisher — Select this when the Hanging Finisher is installed. (Only for the e-STUDIO4540C Series)
  Saddle Stitch Finisher — Select this when the Finisher or Saddle Stitch Finisher is installed.
  Saddle Stitch Finisher and Hole Punch — Select this when the Finisher or Saddle Stitch Finisher and Hole Punch unit are installed.

  Note

  Even if you select [Not Installed] for the Finisher option during print settings, the finisher options such as stapling and hole punching can be selected. If you select the finisher options for printing but the finisher is not installed, finisher settings will be ignored and printing will be performed correctly.

- **Drawers**
  Not Installed — Select this when no optional drawer is installed.
  Drawer 3 — Select this when the drawer 3 is installed.
  Drawer 3 and 4 — Select this when the drawer 3 and 4 are installed.
  LCF — Select this when the Large Capacity Feeder is installed.

  Note

  The Large Capacity Feeder is not available for some countries or regions.

- **External LCF (Only for the e-STUDIO6550C Series)**
  Not Installed — Select this when no External Large Capacity Feeder is installed.
  Installed — Select this when the External Large Capacity Feeder is installed.

4 Click [Apply Changes] and close the window.

Uninstalling the Macintosh PPD File

In order to uninstall the Macintosh PPD file, delete the PPD file in the following folder.

- Library/Printers/PPDs/Contents/Resources/en.lproj/TOSHIBA_ColorMFP.gz
  (For Mac OS X 10.2.4 to 10.3.x for North America)
- Library/Printers/PPDs/Contents/Resources/en.lproj/TOSHIBA_ColorMFPUK.gz
  (For Mac OS X 10.2.4 to 10.3.x for UK)
- Library/Printers/PPDs/Contents/Resources/en.lproj/TOSHIBA_ColorMFP_X4USA.gz
  (For Mac OS X 10.4.x to 10.6.x for North America)
- Library/Printers/PPDs/Contents/Resources/TOSHIBA_ColorMFP_X4.gz
  (For Mac OS X 10.4.x to 10.6.x for UK)
- Library/Printers/toshiba/filter
- Library/Printers/toshiba/Icons
- Library/Printers/toshiba/PDEs
- Library/Receipts

5

INSTALLING PRINTER DRIVERS FOR UNIX/Linux

This chapter describes the instructions on how to install the client software on UNIX/Linux.

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Setting Up the UNIX/Linux Filters

■ About UNIX/Linux filters

In the Client Utilities CD-ROM, the following filters for UNIX/Linux workstations are included:

net_estcolor
This file is a shell script that will be installed in “/usr/lib/lp/model”. It contains all the parsing for the printer specific commands and it generates all the output code. Being a shell script, a system administrator can modify it if a site requires any custom options or if other components are installed in non-standard locations.

lpdsend
This is an executable program that is called by net_estcolor to send the print file to the system using the LPD protocol. This program will be installed in “/opt/toshiba/tap/bin”.

lpLinux.sh (For the Linux filter)

This file is a shell script that simulates the command line functions of lp. After processing the command line options, the e-STUDIO filter is invoked in the same way as a System V print filter. This file is installed in “/opt/toshiba/tap/bin”. A symbolic link to this file will be installed in the “/usr/local/bin” directory as lptap.

estcolorBackend (For the AIX filter)
This is an executable program that is called by the AIX qdaemon. It receives the arguments from the qdaemon, interrogates it for copy information etc. then calls the queues’ copy of net_estcolor to run the print. This program will be installed in “/opt/toshiba/tap/bin”.

estcoloradd
This file is a shell script that is used to create a printer description. This file will be installed in “/opt/toshiba/tap/bin”. A symbolic link will be installed in the “/bin” directory that will point to the actual location of this file.

estcolorrm
This file is a shell script that is used to remove a printer description. This file will be installed in “/opt/toshiba/tap/bin”. A symbolic link will be installed in the “/bin” directory that will point to the actual location of this file.

net_estcolor.1
This is an input file for the man command that supplies online documentation for the printer specific options. This file will be installed in “/opt/toshiba/tap/man/man1”. A symbolic link will be installed in the /usr/man/man1 directory that will point to the actual location of this file.

■ System requirements

For UNIX/Linux workstation, the following environment is required.

OS:	Sun Solaris v2.6/2.7/7.8/8/9/10
	HP-UX ver.10.20/11.x
	IBM AIX 4.3.3
	SCO UnixWare 7
	SCO Open UNIX 8
	Red Hat Linux 7.x/8.0/9.x
	Red Hat Linux Enterprise WS2
	SuSE Linux ver.7.x/8.x/9.x
	Mandrake Linux ver.7.x./8.x/9.x
	Turbolinux 8/10
Protocol:	TCP/IP
Module:	Python must be installed.

Notes

- The “Python” module must be installed on your UNIX/Linux workstation to enable printing. The “Python” module is usually installed in the “/usr/bin/” directory. Check this directory whether the “Python” module is installed.
- The lpd service must be running on Linux system.
- Printing using local port is provided via Samba. Printing via Samba is performed through either IPv4 or IPv6. To perform printing by using a local port that specifies IPv6, IPv6 should be selected on Samba.

■ Precautions for using user authentication

The login name is specified as being case sensitive in the UNIX/Linux system, but not in the equipment. Therefore, ABC, Abc, abc are treated as a different login name in the UNIX/Linux system, but as the same login name in the equipment.

■ Configuring UNIX/Linux printing using UNIX/Linux filters

When you want to configure the UNIX/Linux printing using the UNIX/Linux filters, install the UNIX/Linux filters and configure the LPR queue.

❑ Installing the UNIX/Linux filters

UNIX/Linux Filters are provided as tar files for each Operating System. You can install them by copying the tar file into the root directory and extract the file.

1 Log on to the root account.

2 Insert the Client Utilities CD-ROM into the CD-ROM drive.

3 Enter the following command and check the output:

- **For Solaris:**
  ```
  uname
  ```
  Output on screen should be:
  ```
  SunOS
  ```
- **For HP-UX:**
  ```
  uname
  ```
  Output on screen should be:
  ```
  HP-UX
  ```
- **For IBM AIX:**
  uname
  Output on screen should be:
  ```
  AIX
  ```
- **For Linux:**
  uname
  Output on screen should be:
  ```
  Linux
  ```

- **For Open UNIX:**
  `uname`
  Output on screen should be:
  `OpenUNIX`

  Note

  If the output is not as above, ask your administrator.

4 Copy the tar file onto the root.

A tar file for each operating system is included in following folders:
- For Solaris: [Client Utilities CD-ROM]/Admin/SolarisFilter/Usa/
- For HP-UX: [Client Utilities CD-ROM]/Admin/HP-UXFilter/Usa/
- For AIX: [Client Utilities CD-ROM]/Admin/AIXFilter/Usa/
- For Linux: [Client Utilities CD-ROM]/Admin/LinuxFilter/Usa/
- For Open UNIX: [Client Utilities CD-ROM]/Admin/OpenUnixFilter/Usa/

5 Change to the root (/) directory.

6 Enter the following command:

- **For Solaris:**
  `tar xvf solaris.tar`
- **For HP-UX:**
  `tar xvf hpux.tar`
  `tar xvf hpux64.tar` (for 64-bit edition)
- **For IBM AIX:**
  `tar xvf aix.tar`
- **For Linux:**
  `tar xvf linux.tar`
- **For Open UNIX:**
  `tar xvf openunix.tar`

7 The command extracts all the required files and installs them in the correct locations. Continue the procedure for configuring the print queue.

P.164 “Configuring the print queue”

❑ Configuring the print queue

After you copy UNIX/Linux Filters, you can configure the print queue.
There are two ways to configure the print queue: one is creating a print queue using estcoloradd, and the other is creating a print queue manually without using estcoloradd.

P.164 “Creating a print queue using estcoloradd”
P.166 “Creating a Print Queue Manually”

Creating a print queue using estcoloradd

You can create a print queue using estcoloradd.

1 Log on to the root account.

2 **Enter the following command:**

```
estcoloradd <queue name> <host name or IP address>
```

Tips

- This command creates a print queue using the system's lpadmin command. It also creates a configuration file that has the destination IP address or host name. Use the configuration file to change print queue parameters.
- The lpadmin command saves a printer interface file as the print queue name, and the configuration file is stored in a file named <queue name>.conf. The interface file and configuration file is saved in following directory.
  - Solaris: /etc/lp/interfaces
  - HP-UX: /etc/lp/interface
  - IBM AIX: /opt/toshiba/tap/filter
  - Linux: /opt/toshiba/tap/interface
  - Open UNIX: /usr/spool/lp/admins/lp/interfaces
- Under Linux, the printtool (or equivalent) utility must be used to add the printer into the lp printing system after executing the estcoloradd command. For printtool utility, refer to the manual of the OS.

Creating a Print Queue Manually

You can also configure the print queue by adding a remote printer manually.
The procedure varies depending on the operating systems.
📖 P.166 “Creating a print queue manually on Solaris”
📖 P.166 “Creating a print queue manually on HP-UX”
📖 P.167 “Creating a print queue manually on IBM AIX”
📖 P.167 “Creating a print queue manually on Linux”
📖 P.169 “Creating a print queue manually on Open UNIX”

Note

Use Bourne Shell(sh) to create a print queue manually.

Creating a print queue manually on Solaris

1. **Log on to the root account.**
2. **Open your UNIX/Linux editor.**
3. **Create the following file.**
   ```
   /etc/lp/interfaces/<queue name>.conf
   ```
4. **Add a line as below in the <queue name>.conf.**
   ```
   dest=<IP address>
   ```
5. **Save the file.**
6. **Enter the following command to change the working directory:**
   ```
   /etc/lp/interfaces/
   ```
7. **Enter the following command:**
   ```
   chmod +x <queue name>.conf
   ```
8. **Enter the following command:**
   ```
   chown lp:lp <queue name>.conf
   ```
9. **Enter the following command:**
   ```
   lpadmin -p <queue name> -v /dev/null -I any \
   -i /usr/lib/lp/model/net_estcolor
   ```
10. **Enter the following command:**
    ```
    accept <queue name>
    ```
11. **Enter the following command:**
    ```
    enable <queue name>
    ```

Creating a print queue manually on HP-UX

1. **Log on to the root account.**
2. **Open your UNIX/Linux editor.**
3. **Create the following file.**
   ```
   /etc/lp/interface/<queue name>.conf
   ```
4. **Add a line as below in the <queue name>.conf.**
   ```
   dest=<IP address>
   ```
5. **Save the file.**
6. **Enter the following command to change the working directory:**
   ```
   /etc/lp/interfaces/
   ```
7. **Enter the following command:**
   ```
   chmod +x <queue name>.conf
   ```

8 **Enter the following command:**

```
chown lp:lp <queue name>.conf
```

9 **Enter the following command:**

```
ps -ef | grep lpsched | grep -iv grep > /dev/null 2>&1
```

10 **Enter the following command:**

```
echo $?
```

11 **If "0" is outputted on the screen, turn the scheduler OFF. Enter the following command:**

```
/usr/sbin/lpshut > /dev/null 2>&1
```

12 **Enter the following command:**

```
/usr/sbin/lpadmin -p <queue name> -v/dev/null \
-mnet_estcolor -orm <queue name> -orpprint -ob3
```

13 **Enter the following command:**

```
/usr/sbin/accept <queue name>
```

14 **Enter the following command:**

```
enable <queue name>
```

15 **If you turn OFF the scheduler in step 10, turn the scheduler ON. Enter the following command:**

```
/usr/sbin/lpsched > /dev/null 2>&1
```

Creating a print queue manually on IBM AIX

1 **Enter the following command:**

```
ls /opt/toshiba/tap/filter
```

2 **If the above directory does not exist, enter the following command:**

```
mkdir /opt/toshiba/tap/filter
```

3 **Log on to the root account.**

4 **Open your UNIX/Linux editor.**

5 **Create the following file.**

```
/opt/toshiba/tap/filter/<queue name>.conf
```

6 **Add a line as below in the <queue name>.conf.**

```
dest=<IP address>
```

7 **Save the file.**

8 **Enter the following command:**

```
mkque -q<queue name> \
-a 's_statfilter = /usr/lib/lpd/bsdshort' \
-a 'up = TRUE' -a 'host = <IP address>' -a 'rq = print'
```

9 **Enter the following command:**

```
mkquedev -q <queue name> -ddev_<queue name> \
-a 'backend = /opt/toshiba/tap/bin/estcolorBackend'
```

10 **Enter the following command:**

```
cp /usr/lib/lpd/pio/predef/net_estcolor \
/opt/Toshiba/tap/filter/<queue name>
```

Creating a print queue manually on Linux

1 **Enter the following command:**

```
ls /opt/toshiba/tap/interface
```

2 **If the above directory does not exist, enter the following command:**

```
mkdir /opt/toshiba/tap/interface
```

3 **Log on to the root account.**

4 **Open your UNIX/Linux editor.**

5 **Create the following file.**

```
/opt/toshiba/tap/interface/<queue name>.conf
```

6 **Add a line as below in the <queue name>.conf.**

```
dest=<IP address>
```

7 **Save the file.**

8 **Enter the following command:**

```
cp /opt/toshiba/tap/model/net_estcolor \
/opt/toshiba/tap/interface/<queue name>
```

9 **Enter the following command:**

```
/opt/toshiba/tap/bin/modPrintcap \
-a <queue name> <IP address>
```

10 **Enter the following command:**

```
ls /opt/toshiba/tap/bin/flag_<queue name>
```

Tip

The file in step 10 does not exist when the operations from step 1 to 9 are correctly performed. In that case, the operation of step 11 is not required to be performed. Skip to step 12.

11 **If the above file exists, enter the following command.**

```
/opt/toshiba/tap/bin/printconf_import \
-a <queue name> <IP_ADDRESS>
rm /opt/toshiba/tap/bin/flag_<queue name>
```

12 **Restart your lpd.**

Creating a print queue manually on Open UNIX

1. **Log on to the root account.**
2. **Open your UNIX/Linux editor.**
3. **Create the following file.**
   ```
   /usr/spool/lp/admins/lp/interfaces/<queue name>.conf
   ```
4. **Add a line as below in the <queue name>.conf.**
   ```
   dest=<IP address>
   ```
5. **Save the file.**
6. **Enter the following command:**
   ```
   chmod +x <queue name>.conf
   ```
7. **Enter the following command:**
   ```
   chown lp:lp <queue name>.conf
   ```
8. **Enter the following command:**
   ```
   lpadmin -p <queue name> -v /dev/null -I any \
   -i /usr/lib/lp/model/net_estcolor
   ```
9. **Enter the following command:**
   ```
   accept <queue name>
   ```
10. **Enter the following command:**
    ```
    enable <queue name>
    ```

❑ Changing the default values

You can change the default values of a print queue by the following procedure.

1. **Confirm the interface file of which name is same as the print queue.**
   - This file contains all of the default settings and values that can be set. These values are case sensitive and must conform to the /bin/sh variable format. The interface file is saved in the following directory.
     - Solaris: /etc/lp/interfaces
     - HP-UX: /etc/lp/interface
     - IBM AIX: /opt/toshiba/tap/filter
     - Linux: /opt/toshiba/tap/interface
     - Open UNIX: /usr/spool/lp/admins/lp/interfaces
2. **To edit the configuration file manually, add a line that include parameters and value.**
   - The configuration file is saved in following directory.
     - Solaris: /etc/lp/interfaces
     - HP-UX: /etc/lp/interface
     - IBM AIX: /opt/toshiba/tap/filter
     - Linux: /opt/toshiba/tap/interface
     - Open UNIX: /usr/spool/lp/admins/lp/interfaces
   - For example, to change the default orientation to Landscape, add the following line:
     ```
     orient= "LANDSCAPE"
     ```

❑ Deleting the print queue

There are two ways to delete the print queue: one is deleting a print queue using estcolorrm, and the other is deleting a print queue manually without using estcolorrm.
📖 P.170 “Deleting a print queue using estcolorrm”
📖 P.170 “Deleting a Print Queue Manually”

Deleting a print queue using estcolorrm

When you want to delete the queue using estcolorrm, perform the following procedure.

1 **Log on to the root account.**

2 **Enter the following command:**

```
estcolorrm <queue name>
```

Tips

- This command uses the system’s lpadmin command to delete the print queue and configuration file.
- Restart the lpd under Linux.

Deleting a Print Queue Manually

You can also configure the print queue by deleting a print queue manually.
The procedure varies depending on the operating systems.
📖 P.170 “Deleting a print queue manually on Solaris”
📖 P.170 “Deleting a print queue manually on HP-UX”
📖 P.171 “Deleting a print queue manually on IBM AIX”
📖 P.171 “Deleting a print queue manually on Linux”
📖 P.171 “Deleting a print queue manually on Open UNIX”

Deleting a print queue manually on Solaris

1 **Log on to the root account.**

2 **Enter the following command:**

```
lpadmin -x <queue name>
```

3 **Enter the following command:**

```
rm /etc/lp/interfaces/<queue name>.conf
```

Deleting a print queue manually on HP-UX

1 **Log on to the root account.**

2 **Enter the following command:**

```
ps -ef | grep lpsched | grep -iv grep > /dev/null 2>&1
```

3 **Enter the following command:**

```
echo $?
```

4 **If “0” outputted on the screen, turn the scheduler OFF. Enter the following command:**

```
/usr/sbin/lpshut > /dev/null 2>&1
```

5 **Enter the following command:**

```
/usr/sbin/lpadmin -x<queue name>
```

6 **Enter the following command:**

```
rm /etc/lp/interface/<queue name>.conf
```

7 **If “0” was outputted on the screen in step 3, turn the scheduler ON. Enter the following command:**

```
/usr/sbin/lpsched > /dev/null 2>&1
```

Deleting a print queue manually on IBM AIX

1. **Log on to the root account.**
2. **Enter the following command:**
   ```
   rm /opt/toshiba/tap/filter/<queue name>
   ```
3. **Enter the following command:**
   ```
   rm /opt/toshiba/tap/filter/<queue name>.conf
   ```
4. **Enter the following command:**
   ```
   rmquedev -q<queue name> -ddev_<queue name>
   ```
5. **Enter the following command:**
   ```
   rmque -q<queue name>
   ```


Deleting a print queue manually on Linux

1. **Log on to the root account.**
2. **Enter the following command:**
   ```
   rm /opt/toshiba/tap/interface/<queue name>
   ```
3. **Enter the following command:**
   ```
   rm /opt/toshiba/tap/interface/<queue name>.conf
   ```
4. **Enter the following command:**
   ```
   /opt/toshiba/tap/bin/modPrintcap -d <queue name>
   ```
5. **Enter the following command:**
   ```
   ls /opt/toshiba/tap/bin/flag_<queue name>
   ```
6. **If the above file exists, enter the following command:**
   ```
   /opt/toshiba/tap/bin/printconf_import \
   -d <queue name>
   rm /opt/toshiba/tap/bin/flag_<queue name>
   ```
7. **Restart your lpd.**

Deleting a print queue manually on Open UNIX

1. **Log on to the root account.**
2. **Enter the following command:**
   ```
   lpadmin -x <queue name>
   ```
3. **Enter the following command:**
   ```
   rm /usr/spool/lp/admins/lp/interfaces/<queue name>.conf
   ```

Setting Up the CUPS

When you want to configure the UNIX/Linux printing using CUPS, you can use LPR printing or IPP printing.

Note

When printing using CUPS, the output paper size cannot be specified. If you want to specify the output paper size, use the UNIX/Linux filter.

■ About CUPS

This section describes the behavior, options, and installation method of the CUPS printer driver for the equipment. The behavior of the printer driver presented in this specification is consistent with CUPS v1.1.15. The driver may appear and/or operate slightly differently in the different versions.

In the CUPS environment, use a PostScript Printer Description (PPD) file, not a printer driver to configure the printing. The PPD file is included in this package.

Development Environment

The provided CUPS printer driver is supported on the following UNIX/Linux workstation.

- Red Hat 8.0 CUPS 1.1.18

Implementation Method

This driver consists of a PPD file that works in conjunction with an interface like XPP, KPrinter, etc. It can also be used on OSX in the same way that it is used on Linux, but this is not recommended.

Supplied Components

There is one supplied component, a PPD file called “TOSHIBA_ColorMFP_CUPS.gz”. It has been compressed using gzip. It does not need to be uncompressed for Linux to use the PPD file and so it should be left compressed.

The user needs root privileges to place the PPD file in the default location. The default location for the standard CUPS PPD files is:

/usr/share/cups/model/Toshiba

■ Configuring UNIX/Linux printing using CUPS

You can configure the CUPS for LPR printing or IPP printing.

❑ Installing the CUPS for LPR printing

The PPD must first be copied onto the local machine, the printer installed, and then the PPD configured. The printer is then installed and configured using CUPS via the browser. The PPD can be copied to the root directory and extracted. After extracting the PPD file, restart the CUPS daemon.

The PPD is placed in the "/usr/share/cups/model/Toshiba" directory (which will require root privileges and the Toshiba directory may need to be created). The PPD can be simply copied to the appropriate directory and the CUPS daemon re-started.

1 Insert the Client Utilities CD-ROM into the CD-ROM drive.

2 Log on to the root account.

3 Copy the tar file into the root directory by entering the following command:

```
cp TOSHIBA_ColorMFP_CUPS.tar
```

A tar file is included in the "Admin/CUPS/Usa" folder in the CD-ROM.

4 Enter the following command:

```
cd/
```

5 Extract the tar file by entering the following command:

```
tar xrf TOSHIBA_ColorMFP_CUPS.tar
```

When you execute this command, the PPD file and filter file will be automatically installed in the correct directory.

- When you use other than Linux, or you do not use the CUPS system as the standard installation, proceed to the next step.
- When you use Linux and also use the CUPS system as the standard installation, proceed to step 11.

6 Copy the PPD file and filter file to the correct directory by entering the following command.:

```
cd/usr/share/cups/model/Toshiba
mv Toshiba_ColorMFP_CUPS.gz
```

The target directory to which the PPD file is copied

```
cd/usr/lib/cups/filter/Toshiba
mv est6550_Authentication
```

The target directory to which the filter file is copied

7 Enter the following command:

```
cd the target directory to which the PPD file is copied
```

8 Enter the following command for extracting the PPD file:

```
gunzip TOSHIBA_ColorMFP_CUPS.gz
```

9 Change the following underlined description in the TOSHIBA_ColorMFP_CUPS file (involved in the 60th line) to the correct directory.

```
*cupsFilter:"application/vnd.cups-postscript 0/usr/lib/cups/filter/Toshiba/
est6550_Authentication"
```

10 Enter the following command for compressing the PPD file:

```
gzip TOSHIBA_ColorMFP_CUPS
```

11 Enter the following command:

```
service lpd stop
```

When using the Red Hat Linux, proceed to the next step. When using other than the Red Hat Linux, proceed to step 17.

12 When using the Red Hat Linux, enter the following command:

```
/usr/bin/redhat-switch-printer
```

The [redhat-switch-printer] dialog box appears.

13 **Select [CUPS] and click [OK].**
The [information] dialog box appears.

14 **Click [OK].**

15 **Enter the following command:**
```
service cups start
```

Note

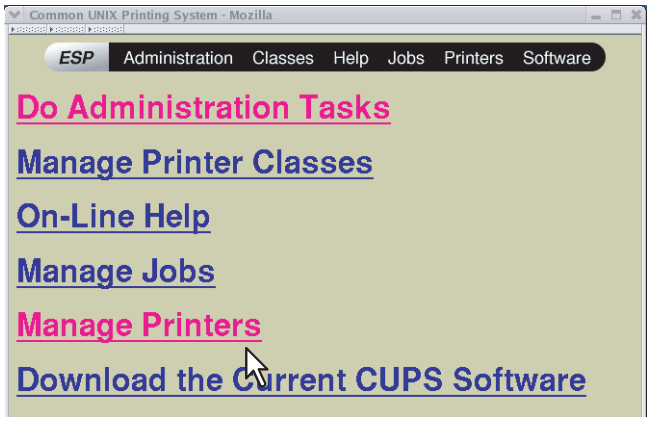
If the CUPS has already been started, stop the CUPS service once by entering “service cups stop” command, and then enter the above command to restart the CUPS service.

16 **Enter the following command:**
```
/usr/bin/cupsconfig
```

The Common UNIX Printing System page appears. Skip to step 18.

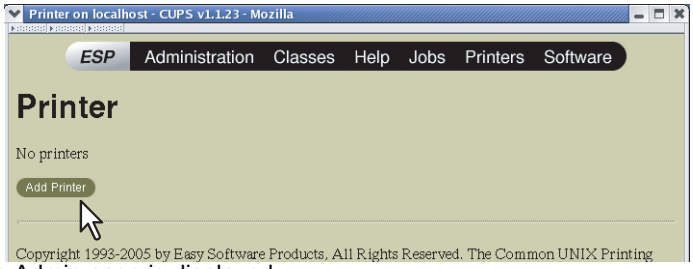
17 **Open the browser and locate CUPS by typing “http://localhost:631/” in the address box.**
The Common UNIX Printing System page appears.

18 **Click the [Manage Printers] link.**



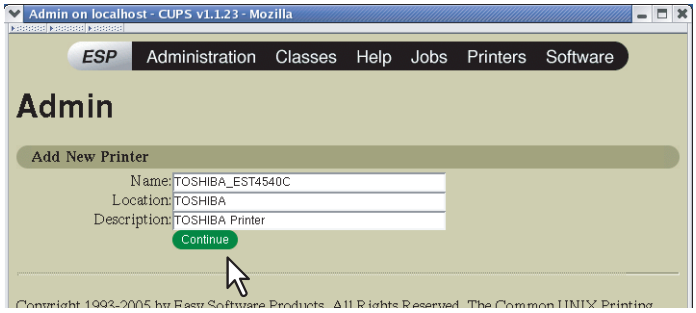
The Printer page is displayed.

19 **Click [Add Printer].**



The Admin page is displayed.

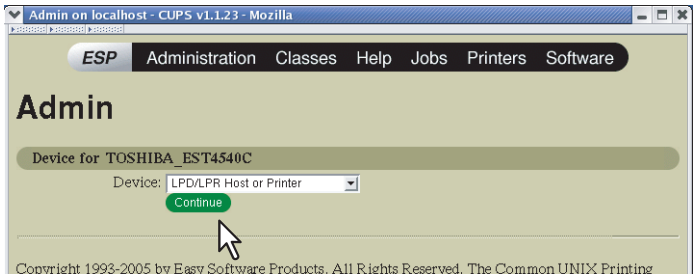
20 Enter the printer name, location, and description of the printer in each box and click [Continue].



Note

If a new printer name is a duplicate of a name already in the printer list, the new printer will replace the original printer.

21 Select [LPD/LPR Host or Printer] in the [Device] box and click [Continue].

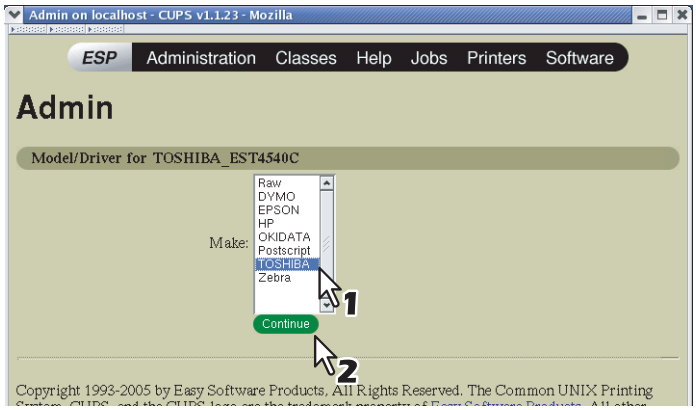


22 Enter “lpd://<IP address>/Print” in the [Device URI] box and click [Continue].

Note

Make sure to capitalize the “P” in “Print” for the device URI.

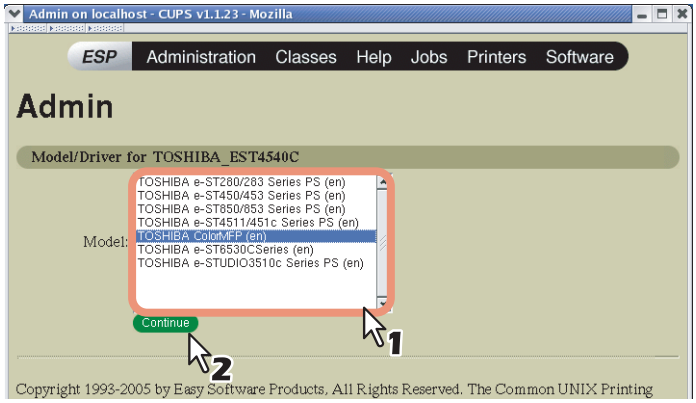
23 Select [TOSHIBA] in the [Make] box and click [Continue].



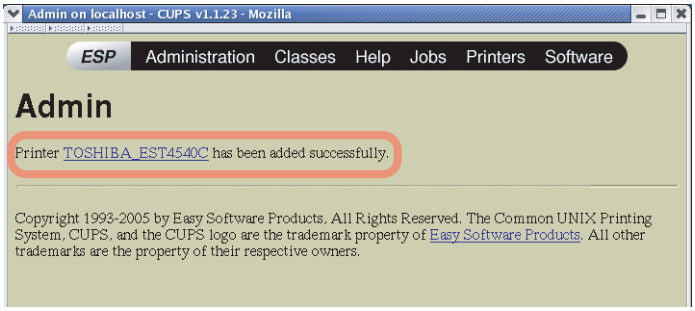
Note

If you do not see [TOSHIBA] in the [Make] list, restart CUPS.

24 Select the PPD in the [Model] list and click [Continue].



25 Confirm that the message notifying that the new printer has been properly added appears.



26 Go to the following page for configuring the print options:

P.179 “Configuring print options”

❑ Installing the CUPS for IPP printing

When you want to setup IPP print queue in the Linux OS, follow the procedures here.

When IPP SSL is enabled on the equipment

When the IPP SSL is enabled on the equipment, you require the following settings on Linux OS.

- OpenSSL should be installed
- CUPS should be configured with "--enable-ssl" option
- HTTPS symbol should be created in the "/usr/lib/cups/backend" directory.
  1. Open the console and login with root privileges.
     - Use "su" or "sudo -s" to login with root privileges.
  2. Enter the following command:
     ```
     cd /usr/lib/cups/backend
     ```
  3. Enter the following command:
     ```
     ln -s ipp https
     ```
  4. Restart the CUPS Service in Linux.
- IPP/SSL certificates in the "/etc/cups" directory should be created
  1. Enter the following command:
     ```
     mkdir ssl folder in /etc/cups
     ```
  2. Enter the following command:
     ```
     openssl req -new -x509
     -keyout /etc/cups/ssl/server.key
     -out /etc/cups/ssl/server.crt -days 365 -nodes
     ```

     Notes

     - The above command must be entered as one continuous command with no carriage returns.
     - The user will be prompted to enter country/state/province/locality/organization/organizational unit/common name and e-mail address.

  3. Enter the following command:
     ```
     chmod 600 /etc/cups/ssl/server.*
     ```
     * The "-nodes" option prevents the certificate and key from being encrypted.
     The cupsd process runs in the background, detached from any input source; if you encrypt these files then cupsd will not be able to load them.
  4. Add the following lines in the cupsd.conf file in /etc/cups path.
     ```
     SSLPort 443
     ServerCertificate /etc/cups/ssl/server.crt
     ServerKey /etc/cups/ssl/server.key
     ```
  5. Run the following command on the shell to restart the CUPS Server.
     ```
     Service cups restart
     ```

1 **Insert the Client Utilities CD-ROM into the CD-ROM drive.**

2 **Log on to the root account and create "Toshiba" directory in the "/usr/share/cups/model" directory.**

3 **Copy the GZIP file into the "/usr/share/cups/model/Toshiba" directory or enter the following command:**

```
cp TOSHIBA_ColorMFP_CUPS.gz /usr/share/cups/model/Toshiba
```

A GZIP file is included in the "Admin/CUPS/Usa" folder in the CD-ROM.

4 **Enter the following command:**

```
service lpd stop
```

Note

If lpd is already stopped, "Failed" will be displayed.

- When using the Red Hat Linux, continue to the next step.
- When using other than the Red Hat Linux, skip to step 10.

5 **When using the Red Hat Linux, enter the following command:**

```
/usr/bin/redhat-switch-printer
```

The [redhat-switch-printer] dialog box appears.

6 **Select [CUPS] and click [OK].**
The [information] dialog box appears.

7 **Click [OK].**

8 **Enter the following command:**
```
service cups start
```

Note

If the CUPS has already been started, stop the CUPS service once by entering “service cups stop” command, and then enter the above command to restart the CUPS service.

9 **Enter the following command:**
```
/usr/bin/cupsconfig
```

The Common UNIX Printing System page appears.

10 **Open the browser and locate CUPS by typing “http://localhost:631/” in the address box.**
The Common UNIX Printing System page appears.

Note

When IPP/SSL is enabled, specify “https://local host:443/” in the address field to access the Common UNIX Printing System.

11 **Click the [Manage Printers] link.**
The Printer page appears.

12 **Add a new https printer by clicking [Add Printer].**
Configure the parameters as:
Name: <Any Name>
Location: <Optional>
Description: <Optional>
Device: Internet Printing Protocol (http)
Device URI: http://<IP address>:631/Print
Model/Driver: TOSHIBA

Note

When IPP/SSL is enabled, specify as follows:
- **Device**: Internet Printing Protocol (https)
- **Device URI**: https://<IP address>:443/Print

Tip

Using CUPS Client (print commands lp, lpr, etc.) with -e option, the connection can be encrypted and printing can be done in the above configured printer.

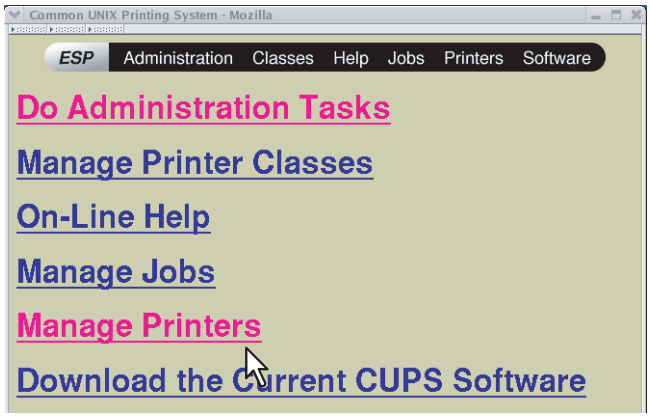
13 **Confirm that the message notifying that the new printer has been properly added appears.**

14 **Go to the following page for configuring the print options:**
P.179 “Configuring print options”

❑ Configuring print options

You can set the print options that are applied to the print jobs using CUPS.

1 Click the [Manage Printers] link on the startup page.

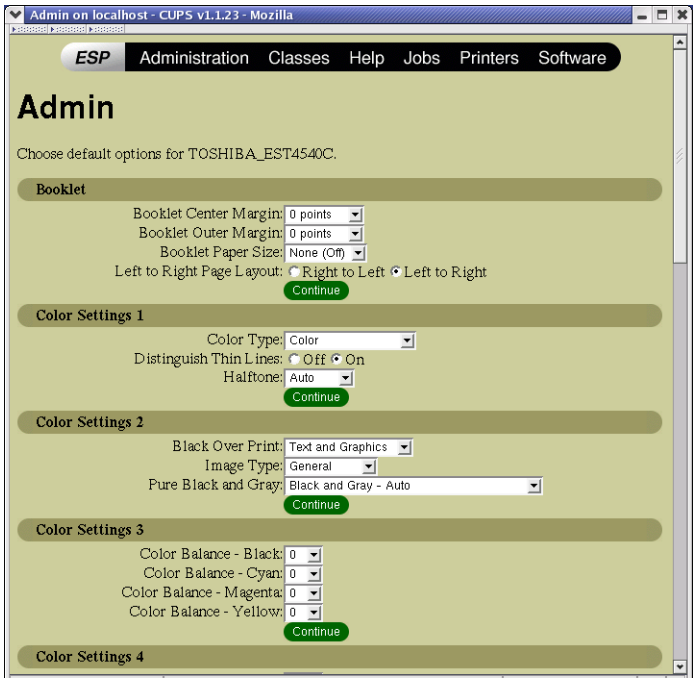


The Printer page is displayed.

2 Select this equipment and then click [Configure Printer].

3 Configure the print options on the displayed page.

The underscored items are set by default.



Booklet

Option Value	Alternative Value	Description
Booklet Center Margin	0 to 36 (in unit of 3 points)	Select the center margin.
Booklet Outer Margin	0 to 72 (in unit of 6 points)	Select the outer margin.
Booklet Paper Size	None (Off) Letter A4 Legal Statement Ledger Folio A3 A5 B4 B5 Computer 13" LG 8.5" SQ 8K 16K	Select a paper size for the booklet. Each two pages are printed on both sides of a sheet which is then folded. The booklet size will be the half size of the paper size that you specify.
Left to Right Page Layout	Right to Left Left to Right	Select whether the booklet can be read from right to left or left to right.
[Continue] button	Determines the selected items.	

Color Settings 1

Option Value	Alternative Value	Description
Color Type	Auto Color Mono Black and Red Black and Green Black and Blue Black and Cyan Black and Magenta Black and Yellow Black and White	Select whether a print job is printed in color, mono, or twin color.
Resolution	600dpi, 1200dpi	Select a print resolution. Note “Resolution” can be selected only for the e-STUDIO6550C Series.
Distinguish Thin Lines	Off, On	Select whether to distinguish thin lines or not.
Halftone	Auto Detail Smooth	Select the appropriate processing on halftone images among “Auto”, “Detail (high density)” and “Smooth (smooth tone reproduction)”.
[Continue] button	Determines the selected items.	

Color Settings 2

Option Value	Alternative Value	Description
Black Overprint	Off, Text Text and Graphics	Select whether printing background content that has black text overlayed on it.
Image Type	General Photo Presentation Line Art	Select how colors are printed. The printer driver automatically applies proper image quality for selected job type.
PostScript Overprint	Off, On	Select whether to overprint an object that has been set so on an application. Note This option is selectable only when [Color] or [Auto] is selected in the [Color Type] box in the Color Settings 1 menu.
Pure Black and Gray	Off Black - Auto Black - Text Black - Text and Graphic Black - Text, Graphic and Image Black and Gray - Auto Black and Gray - Text Black and Gray - Text and Graphic Black and Gray - Text, Graphic and Image	Select whether printing the black and gray scale contents in a document using the black toner.
[Continue] button	Determines the selected items.	

Color Settings 3

Option Value	Alternative Value	Description
Color Balance - Black	-4, -3, -2, -1, 0, 1, 2, 3, 4	Select the density for black toner.
Color Balance - Cyan	-4, -3, -2, -1, 0, 1, 2, 3, 4	Select the density for cyan toner.
Color Balance - Magenta	-4, -3, -2, -1, 0, 1, 2, 3, 4	Select the density for magenta toner.
Color Balance - Yellow	-4, -3, -2, -1, 0, 1, 2, 3, 4	Select the density for yellow toner.
[Continue] button	Determines the selected items.	

Color Settings 4

Option Value	Alternative Value	Description
Background Adjustment	-4, -3, -2, -1, 0, 1, 2, 3, 4	Select the density level of the background.
Brightness	-4, -3, -2, -1, 0, 1, 2, 3, 4	Select the brightness.
Contrast	-4, -3, -2, -1, 0, 1, 2, 3, 4	Select the contrast.
Saturation	-4, -3, -2, -1, 0, 1, 2, 3, 4	Select the saturation.
Sharpness	-4, -3, -2, -1, 0, 1, 2, 3, 4	Select the sharpness.
Use Sharpness Filter	Off, On	Selecting this option allows you to adjust the sharpness for printing.
[Continue] button	Determines the selected items.	

Finishing

Option Value	Alternative Value	Description
Destination	**e-STUDIO4540C Series** Printer's Default Exit Tray Tray 1 Tray 2 **e-STUDIO6550C Series** Printer's Default Upper Exit Tray Side Exit Tray Tray 1 Tray 2	Select a destination.
Folding	Off, On	Select whether the Folding feature is enabled or not.
Hole Punch	Off Long Edge Punch without rotation Short Edge Punch without rotation Long Edge Punch with 180 degree rotation Short Edge Punch with 180 degree rotation	Select the hole punch option.
Stapling	Off Upper Left (Portrait)/Upper Right (Landscape) Middle Left (Portrait)/Middle Top (Landscape) Lower Left (Portrait)/Upper Left (Landscape) Upper Right (Portrait)/Lower Right (Landscape) Middle Right (Portrait)/Middle Bottom (Landscape) Lower Right (Portrait)/Lower Left (Landscape) Middle Top (Portrait)/Middle Right (Landscape) Middle Bottom (Portrait)/Middle Left (Landscape) Saddle Stitch (Portrait)/Saddle Stitch (Landscape)	Select whether a print job is stapled or its locations. Note "Saddle Stitch (Portrait)/Saddle Stitch (Landscape)" can be selected only when the Saddle Stitch Finisher is installed.
[Continue] button	Determines the selected items.	

General

Option Value	Alternative Value	Description
Collate	Yes, No	Select whether to collate exited paper.
Duplex	1-Sided	1-sided printing
	2-Sided, No Tumble (Long-Edge Binding)	2-sided printing (Long-edge binding)
	2-Sided, Tumble (Short-Edge Binding)	2-sided printing (Short-edge binding)
Media Size	A3, A4, A5, A6, B4, B5, Ledger, Legal, Letter, Statement, Folio, Computer, 13" LG, 8.5" SQ, 12 x 18", 305 x 457 mm, 8K, 16K, 320 x 450 mm, 320 x 460 mm, 13x 19"	Select the paper size. Note 13 x 19" can be selected only for the e-STUDIO6550C Series.
Media Source	Auto (Default) Drawer 1 Drawer 2 LCF External LCF Drawer 3 Drawer 4 Bypass Tray Plain Plain (Auto) Plain 1 Plain 2 Thick 1 Thick 1 (Back) Thick 2 Thick 2 (Back) Thick 3 Thick 3 (Back) Thick 4 Thick 4 (Back) Transparency Recycled Special 1 Special 1 (Back) Special 2 Special 2 (Back)	Select the paper source. Notes • “Plain (Auto), Plain 1, Plain 2” can be selected only e-STUDIO6550C Series. • “External LCF” can be selected only e-STUDIO6550C Series. • “Plain” can be selected only e-STUDIO4540C Series.
[Continue] button	Determines the selected items.	

Options Installed

Option Value	Alternative Value	Description
Model Selection	TOSHIBA e-STUDIO6550CSeries TOSHIBA e-STUDIO4540CSeries	
Drawers	Not Installed Drawer 3 Drawer 3 and 4 LCF	Select an optional drawer.
Finisher	**e-STUDIO4540C Series** Not Installed Hanging Finisher Saddle Stitch Finisher Saddle Stitch Finisher and Hole Punch **e-STUDIO6550C Series** Not Installed Saddle Stitch Finisher Saddle Stitch Finisher and Hole Punch	Select the finishing option.
External LCF	Not Installed Installed	Select the External Large Capacity Feeder option. Note “External LCF” can be selected only for the e-STUDIO6550C Series.
[Continue] button	Determines the selected items.	

Printing Modes

Option Value	Alternative Value	Description
Department Code	Disabled Enabled	Select whether or not to use the department codes for printing. When this equipment is managed under the department codes, this option should be enabled.
Do not Print Blank Pages	Off, On	Select whether or not a blank page is printed.
Print Mode	Normal Proof Private - Password Hold	Select a print mode.
Toner Save	Off, On	Select whether to print in the toner save mode.
[Continue] button	Determines the selected items.	

Printing Modes DC

Option Value	Alternative Value	Description
Department Code (DC) - Digit 1 to Digit 5	0 to 9	Specify the 5-digit department code when “Department Code” of “Printing Modes” is enabled. For the appropriate department code, ask your system administrator.
[Continue] button	Determines the selected items.	

Private Document Password

Option Value	Alternative Value	Description
Password - Digit 1 to Digit 5	0 to 9	Specify the 5-digit document password when “Private - Password” is selected for “Print Modes”.
[Continue] button	Determines the selected items.	

Banners

Option Value	Alternative Value	Description
Starting Banner	none	Select whether to print banner pages before printing documents. If you want to print them, select a banner type.
	classified	Classified information
	confidential	Confidential information
	secret	Secret information
	standard	Standard information
	topsecret	Top secret
	unclassified	Unclassified information
Ending Banner	none	Select whether to print banner pages after printing documents. If you want to print them, select a banner type.
	classified	Classified information
	confidential	Confidential information
	secret	Secret information
	standard	Standard information
	topsecret	Top secret
	unclassified	Unclassified information
[Continue] button	Determines the selected items.	

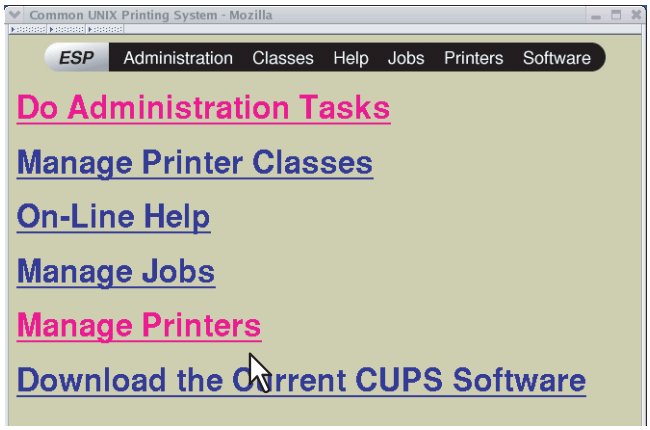
PS Binary Protocol

Option Value	Alternative Value	Description
PS Binary Protocol	None, TBCP	Select whether to process print data in a binary format using PostScript and using TBCP protocol.
[Continue] button	Determines the selected items.	

❑ Modifying printer

You can modify the printer that you create.

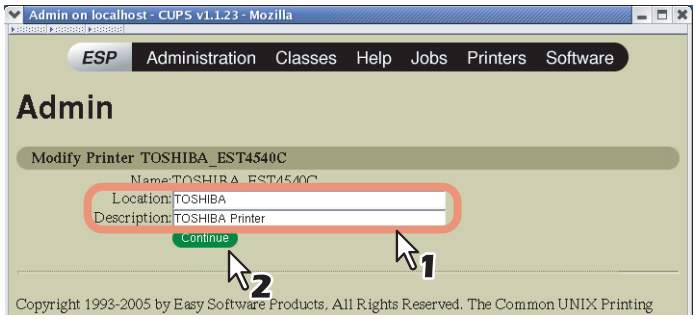
1 Click the [Manage Printers] link on the startup page.



The Printer page is displayed.

2 Click [Modify Printer].

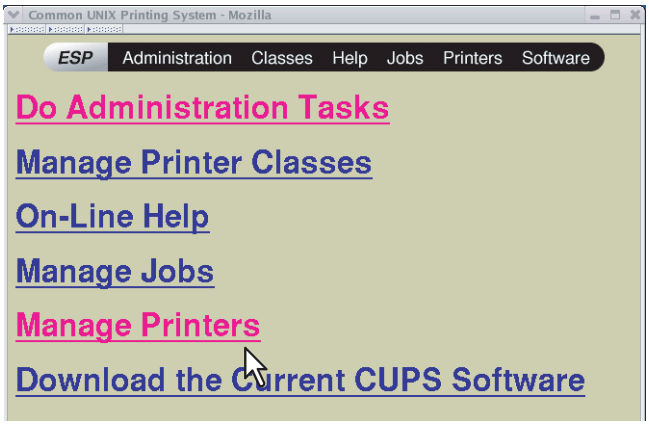
3 Modify the location and description in each box and click [Continue].



❑ Uninstalling printer

To uninstall the printer that you create, perform the following procedure.

1 Click the [Manage Printers] link on the startup page.



The Printer page is displayed.

2 Click [Delete Printer].

- When a message appears asking to remove the printer, click [Continue].
- The printer is deleted.

3 Delete the PPD file "TOSHIBA_ColorMFP_CUPS.gz" from the "/usr/share/cups/model/Toshiba" directory.

6

INSTALLING SCAN DRIVER AND UTILITIES

This chapter describes about installing the scan driver and scan utilities.

Before Installation 190
Type of scan driver and utilities 190
System requirements 190

Installing Scan Driver and Utilities 191
Installing the scan driver and utilities using the installer 191
Installing WIA driver to Windows Vista / Windows 7 / Windows Server 2008 193

Uninstalling Scan Driver and Utilities 195

Before Installation

This section describes about the installation of the scan driver and utilities. Before installing them, read this section.

■ Type of scan driver and utilities

Install the following utilities to use the network scan functions.

TWAIN driver

This software component enables you to import e-Filing documents into TWAIN-compliant applications.

File Downloader

This software component enables you to import e-Filing documents into your hard disk.

Remote Scan driver

You can use Remote Scan driver to import the scanned images into your TWAIN-compliant application.

WIA driver

You can use Remote Scan driver to import the scanned images into your WIA-compliant application.

■ System requirements

To install the scan driver and utilities on a Windows computer, the following is required.

- **Display resolution**
  1024 x 768 dots or more
- **Display color**
  High Color (16 bit) or higher is recommended
- **CPU**
  Pentium 133 MHz minimum (Pentium 266 MHz or faster recommended)
- **OS**
  Windows XP Service Pack 2 or later
  Windows Vista Service Pack 1 or later
  Windows 7
  Windows Server 2003 Service Pack 2
  Windows Server 2008 Service Pack 1 or later

Notes

- TWAIN driver, File Downloader and Remote Scan driver are not supported by 64-bit editions of the operating systems listed above.
- WIA driver is not supported by 64-bit editions of Windows XP and Windows Server 2003.

❑ When scan driver and utilities have been installed

If the scan driver and utilities have been installed from other e-STUDIO Client Utilities CD-ROM, uninstall them then install again from the Client Utilities CD-ROM.
When you uninstall the software, click [No] at the dialog box that displays the message to delete the settings for the scan driver and utilities so that you can restore the settings after installing new one.

Installing Scan Driver and Utilities

This section describes how to install the scan driver and utilities.

■ Installing the scan driver and utilities using the installer

Perform installation corresponding to your Windows computer. However, you need to follow a different procedure when you install WIA driver into Windows Vista, Windows 7 or Windows Server 2008. For the installation procedure for these operating systems, see the following page:
📖 P.193 “Installing WIA driver to Windows Vista / Windows 7 / Windows Server 2008”

Note

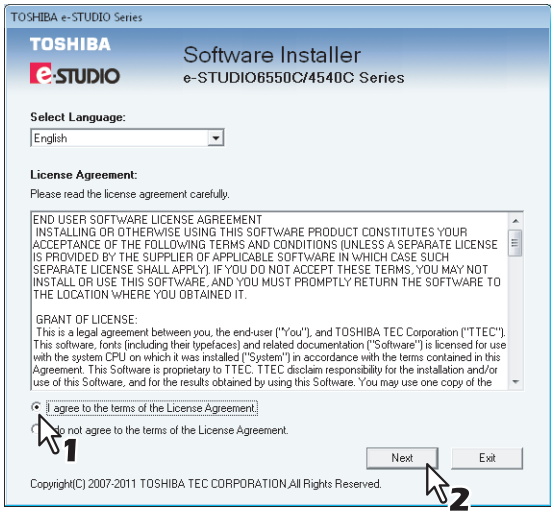
To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.
If Windows Vista / Windows 7 / Windows Server 2008 is used, you can perform the installation by temporarily changing the user account following the procedure below.

- Open the “e-STUDIO” folder in a CD-ROM, and then double-click “Setup.exe”.
- When the [User Account Control] dialog box is displayed, enter an administrator password, and then click [Yes] ([OK]).

1 Insert the Client Utilities CD-ROM into the CD-ROM drive.

If Software Installer does not automatically start, use the Explorer to open the “e-STUDIO” folder in the Client Utilities CD-ROM and double-click “Setup.exe”.

2 Select [I agree to the terms of the License Agreement.] and click [Next].



- To change the display language, select a desired language from the [Select Language] box.
- The main menu is displayed.

3 Click [Scan Utility].

4 Confirm the list of the software to install and click [Install].

- You can change the folder where these programs are installed. Click [Browse] and, when the [Browse For Folder] dialog box appears, select a folder and click [OK].
- The installation starts.

5 When the installation is complete, click [Finish].

The main menu is displayed.

Note

The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

6 Click [Exit].

When a message appears asking whether to finish the installation, click [Yes].

■ Installing WIA driver to Windows Vista / Windows 7 / Windows Server 2008

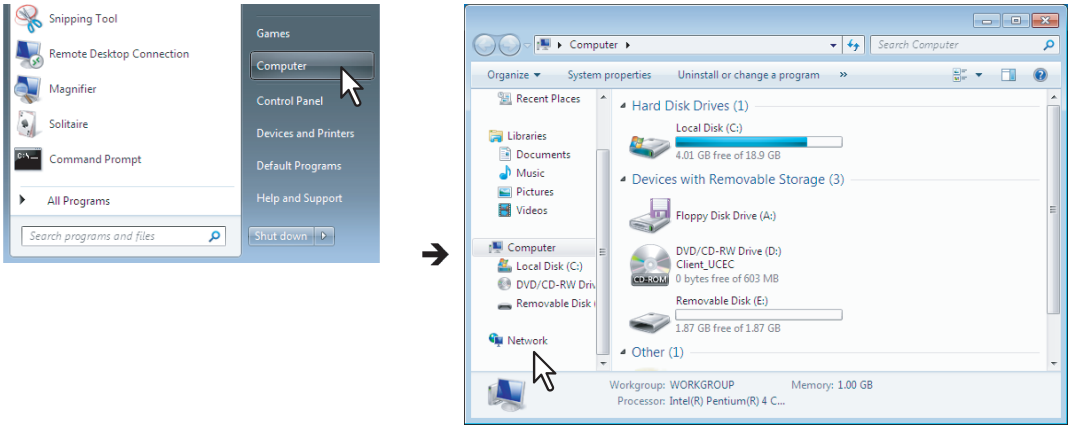
Perform installation corresponding to your Windows computer.

Notes

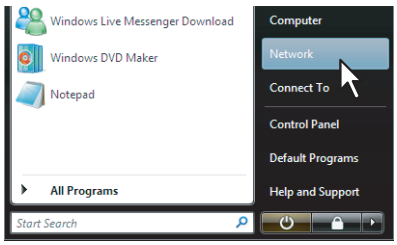
- When you are using Windows Server 2003 or Windows Server 2008, the following must be done before you install WIA driver to your computer.
  - For Windows Server 2003
    Select [Windows Image Acquisition (WIA)] from [Services] of [Administrative Tools], and change the Startup Type from [Disabled] to [Automatic].
  - For Windows Server 2008
    Install [Desktop Experience] from [Server Manager] of [Administrative Tools].
    Select [Windows Image Acquisition (WIA)] from [Services] of [Administrative Tools], and change the Startup Type from [Disabled] to [Automatic].
    Select [PnP-X IP Bus Enumerator] from [Services] of [Administrative Tools], and change the Startup Type from [Disabled] to [Automatic].
- To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software. However, if you have logged on with a user account other than “Administrator”, entering an administrator password upon display of the [User Account Control] dialog box enables you to perform the installation by temporarily changing the user account.

1 Open the [Network] screen.

- When you are using Windows 7
  Click the start button, select [Computer] and click [Network].



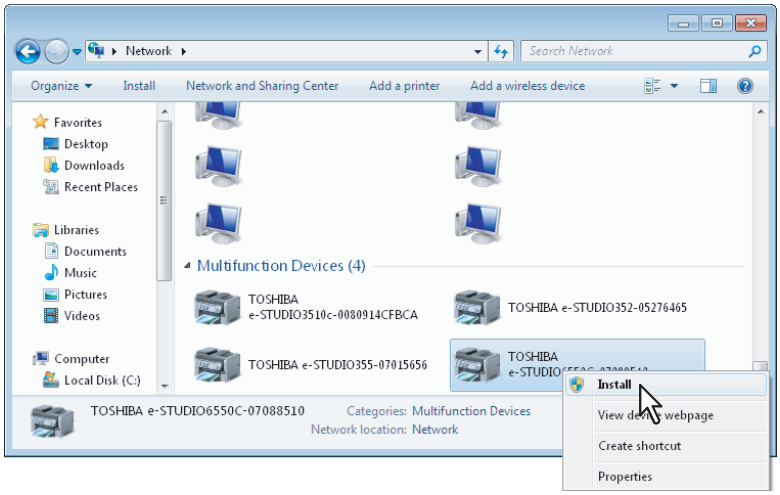
- When you are using Windows Vista / Windows Server 2008
  Click the start button and click [Network].



Note

To begin the installation of WIA driver, you must first install the scan utilities to your computer.
For instructions on how to install them to your computer, see the following page:
📖 P.191 “Installing the scan driver and utilities using the installer”

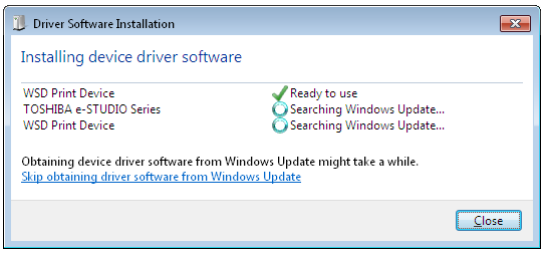
2 Select this equipment and right-click its name. Then click [Install].



- When you are using Windows 7, the installation begins. Proceed to step 4.

Tip

When you click the icon on the task bar, the progress bar will be displayed as shown below.



- When you are using Windows Vista or Windows Server 2008, [PnPX Device Association] is displayed on the task bar. Proceed to the next step.

3 Click [PnPX Device Association] displayed on the task bar.

The installation begins.

4 The installation is completed.

Uninstalling Scan Driver and Utilities

You can uninstall scan driver and utilities using Uninstall a program function in Control Panel. For instructions on how to uninstall them, refer to the following section.
📖 P.210 “Uninstalling Client Software”

Uninstalling WIA driver

When you uninstall WIA driver from Windows Vista, Windows 7 or Windows Server 2008, follow steps 1 and 2 of the installation procedure (start button → [Network] → this equipment). Then right-click its name and click [Uninstall]. Then the uninstallation is performed.

7

INSTALLING NETWORK FAX UTILITIES

This chapter describes about installing the network fax utilities.

Before Installation 198
Type of network fax utilities 198
System requirements 198

Installing Network Fax Utilities 199

Installing Web Service Print 201

Uninstalling the Network Fax Software 202
Uninstalling N/W-Fax driver 202
Uninstalling AddressBook Viewer 202

Before Installation

This section describes about the installation of the network fax utilities. Before installing them, read this section.

■ Type of network fax utilities

Install the following utilities to use the network fax functions.

N/W-Fax driver

The N/W-Fax driver enables you to set up send lists and send electronic documents from your client computer to one or more destinations. You print to the fax much the same way you would choose to print to a designated printer that makes using the N/W-Fax driver quick and simple. You can select the fax properties. Fax properties are the attributes you can set to define sender and recipient information for processing fax jobs such as dialing options, sender information, fax resolution and page layout.
Other features include an easy to use fax scheduler that allows you to set up a date and time to transmit your fax. Cover page options are also provided. You can include a customized cover page with your fax transmission that can include sender and recipient fax information and a detailed message. You can easily maintain sender and contact information that can be printed on the cover pages.

AddressBook Viewer

With the AddressBook Viewer you can easily add or modify fax recipient names, fax numbers, and E-mail address (E-mail address) to the Address Book. This utility allows you to manage recipients of the fax, select and display fax recipients from the Address Book, as well as recipient fax numbers and other contact information.
Additionally, AddressBook Viewer allows you to import or export address book data to or from other address book programs compatible to this equipment.

■ System requirements

To install the N/W-Fax driver and AddressBook Viewer on a Windows computer, the following is required.

- **Display resolution**
  1024 x 768 dots or more
- **Display color**
  High Color (16 bit) or higher is recommended
- **CPU**
  Pentium 133 MHz minimum (Pentium 266 MHz or faster recommended)
- **Memory**
  The required memory size for OS
- **OS**
  Windows XP Service Pack 2 or later
  Windows Vista Service Pack 1 or later
  Windows 7
  Windows Server 2003 Service Pack 2
  Windows Server 2008 Service Pack 1 or later

❑ When network fax utilities and AddressBook Viewer have been installed

If the N/W-Fax driver and AddressBook Viewer have been installed from other e-STUDIO Client Utilities CD-ROM, uninstall them then install again from the Client Utilities CD-ROM.
When you uninstall the AddressBook Viewer, click [No] at the dialog box that displays the message to delete the settings for the AddressBook Viewer so that you can restore the settings after installing new one.

Installing Network Fax Utilities

Perform installation corresponding to your Windows computer.

Note

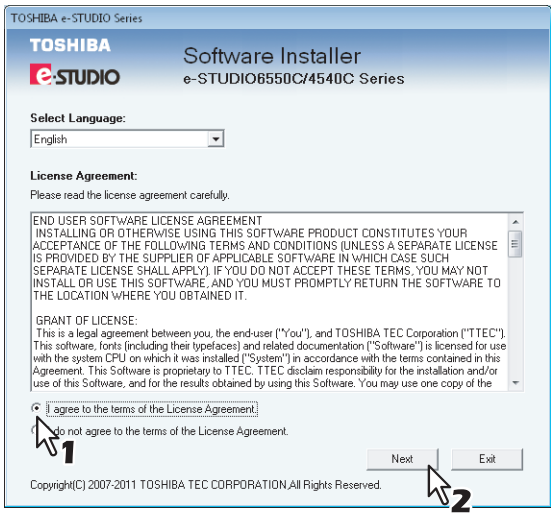
To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.
If Windows Vista / Windows 7 / Windows Server 2008 is used, you can perform the installation by temporarily changing the user account following the procedure below.

- Open the “e-STUDIO” folder in a CD-ROM, and then double-click “Setup.exe”.
- When the [User Account Control] dialog box is displayed, enter an administrator password, and then click [Yes] ([OK]).

1 Insert the Client Utilities CD-ROM into the CD-ROM drive.

If Software Installer does not automatically start, use the Explorer to open the e-STUDIO folder in the Client Utilities CD-ROM and double-click “Setup.exe”.

2 Select [I agree to the terms of the License Agreement.] and click [Next].



- To change the display language, select a desired language from the [Select Language] box.
- The main menu is displayed.

3 Click [Fax Driver].

4 Confirm the list of the software to install and click [Install].

You can change the folder where these programs are installed. Click [Browse] and, when the [Browse For Folder] dialog box appears, select a folder and click [OK].

Note

When you want to verify and/or change the SNMP settings to find the target TOSHIBA MFPs, see step 4 in the following section:

📖 P.26 “Procedure for Recommended Installation”

Since the subsequent procedure is the same as that for printer driver installation, the steps are omitted. See the following pages according to the connection environment.

📖 P.39 “Raw TCP/LPR printing”
📖 P.49 “SMB printing”

Installing Web Service Print

You can install a N/W-Fax driver in Windows Vista / Windows 7 / Windows Server 2008 using the WSD (Web Services on Devices) protocol. Since the installation procedure is the same as that for printer driver installation, it is omitted. When performing installation, see the following page:

🕮 P.101 “Web Service Print”

Uninstalling the Network Fax Software

The following instructions describe how to uninstall the N/W-Fax driver and AddressBook Viewer.

■ Uninstalling N/W-Fax driver

You can uninstall a N/W-Fax driver. Since the uninstallation procedure is the same as that for printer driver uninstallation, it is omitted. When performing uninstallation, see the following page:
🕮 P.111 “Uninstalling Printer Drivers”

■ Uninstalling AddressBook Viewer

You can uninstall AddressBook Viewer using Uninstall a program function in Control Panel. For instructions on how to uninstall them, refer to the following section.
🕮 P.210 “Uninstalling Client Software”

8

INSTALLING e-Filing BACKUP/RESTORE UTILITIES

This chapter describes about installing the e-Filing Backup/Restore utilities.

Before Installation **204**
System requirements 204
Installing e-Filing Backup/Restore Utilities **205**
Uninstalling e-Filing Backup/Restore Utilities **208**

Before Installation

This section describes about the installation of the e-Filing Backup/Restore utilities. Before installing them, read this section.

■ System requirements

To install the e-Filing Backup/Restore Utility on a Windows computer, the following is required.

- **Display resolution**
  1024 x 768 dots or more
- **Display color**
  High Color (16 bit) or higher is recommended
- **CPU**
  Pentium 133 MHz minimum (Pentium 266 MHz or faster recommended)
- **Memory**
  The required memory size for OS
- **OS**
  Windows XP Service Pack 2 or later
  Windows Vista Service Pack 1 or later
  Windows 7
  Windows Server 2003 Service Pack 2
  Windows Server 2008 Service Pack 1 or later
- **Required software**
  Microsoft Internet Explorer 5.5 Service Pack 2 or later (Internet Explorer 7.0 or later when IPv6 is used)
  Microsoft Internet Explorer is enabled to access the e-Filing web utility on this equipment.
  - The proxy settings must be configured correctly to enable the access.
  - The browser must not be offline.

Notes

- The e-Filing Backup/Restore utility is not supported by 64-bit editions of the operating systems listed above.
- To backup/restore e-Filing data using e-Filing Backup/Restore utility, the FTP server option that can be set in the network settings of TopAccess must be enabled.

Installing e-Filing Backup/Restore Utilities

Perform installation corresponding to your Windows computer.

Note

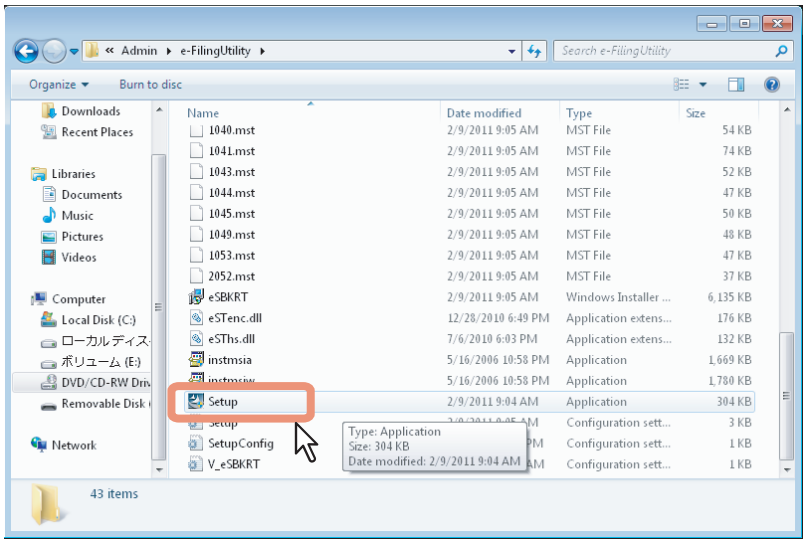
To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.
If Windows Vista / Windows 7 / Windows Server 2008 is used, you can perform the installation by temporarily changing the user account following the procedure below.

- Open the “Admin\e-FilingUtility” folder in a CD-ROM, and then double-click “Setup.exe”.
- When the [User Account Control] dialog box is displayed, enter an administrator password, and then click [Yes] ([OK]).

1 Insert the Client Utilities CD-ROM into the CD-ROM drive.

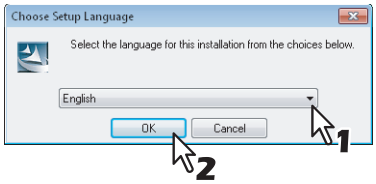
When you insert the Client Utilities CD-ROM into the CD-ROM drive, Software Installer may launch automatically. In this case, click [Exit] to close it and continue the operation.

2 Open “Admin\e-FilingUtility” folder and double-click “setup.exe”.



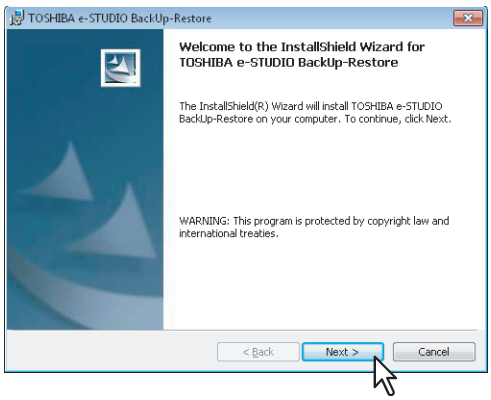
The [Choose Setup Language] dialog box appears.

3 Select your language and click [OK].



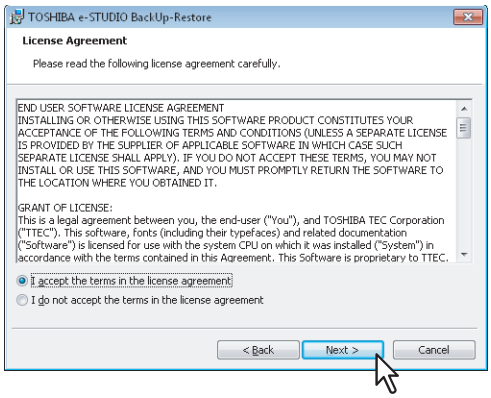
The [InstallShield Wizard] dialog box appears.

4 Click [Next].



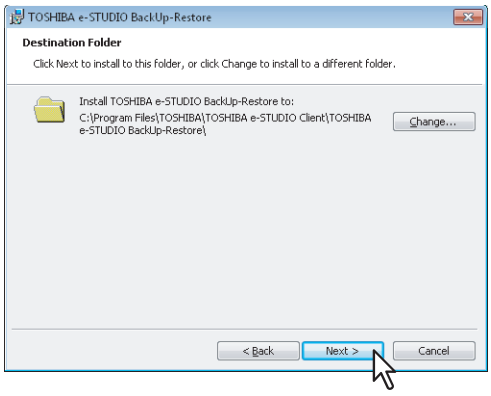
The [License Agreement] dialog box appears.

5 Select “I accept the terms in the license agreement” and click [Next].



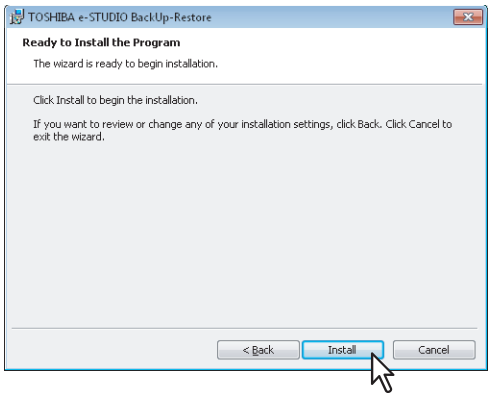
The [Destination Folder] dialog box appears.

6 Click [Next].



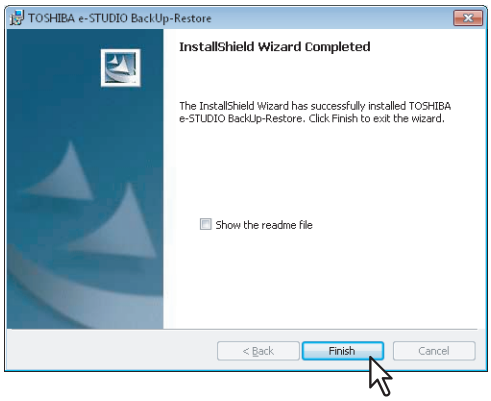
- If you want to change where the programs are installed, click [Change]. In the dialog box appears, select the folder and click [OK].
- [Ready to Install the Program] dialog box appears.

7 Click [Install].



Starts copying files and the InstallShield Wizard Completed screen displayed when copying is completed.

8 Click [Finish].



The installation is completed.

Note

The Installer may ask you to restart your computer. If it does, select “Yes”, I want to restart my computer now.” and click [Finish] to restart your computer.

Uninstalling e-Filing Backup/Restore Utilities

You can uninstall e-Filing Backup/Restore utilities using Uninstall a program function in Control Panel. For instructions on how to uninstall them, refer to the following section.
P.210 “Uninstalling Client Software”

9

INSTALLATION MAINTENANCE

This chapter describes how to uninstall and repair the client software using the setup program.

Uninstalling Client Software **210**
Windows Vista / Windows 7 / Windows Server 2008 210
Windows XP / Windows Server 2003 211
Repairing Client Software **213**

Uninstalling Client Software

The following describes how to uninstall client software.
Perform uninstallation corresponding to your Windows computer.

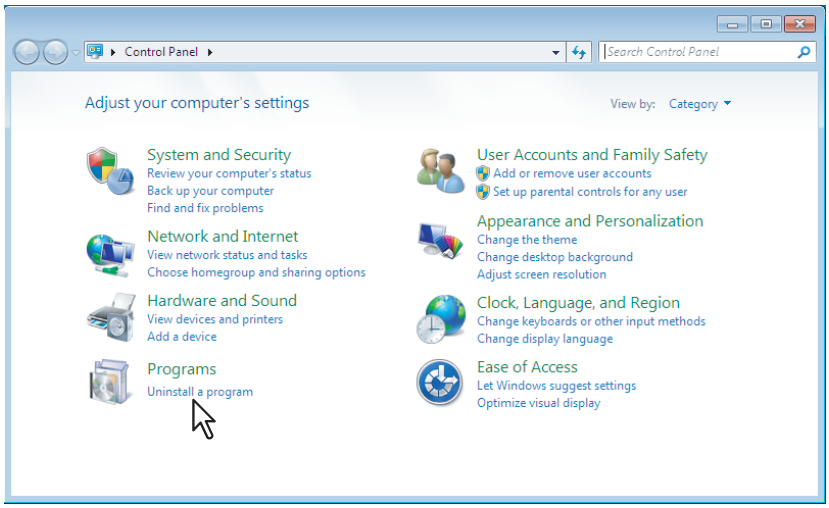
P.210 “Windows Vista / Windows 7 / Windows Server 2008”
P.211 “Windows XP / Windows Server 2003”

Notes

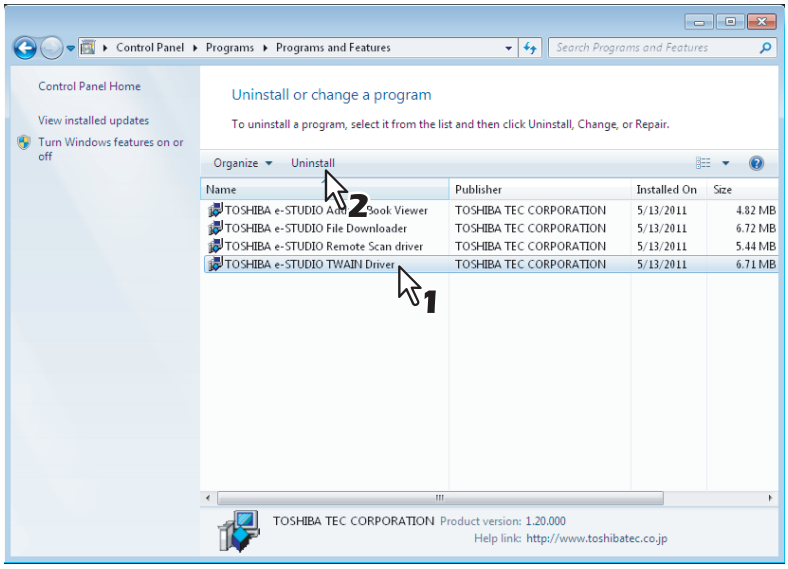
- The printer drivers and N/W-Fax driver cannot be uninstalled by the setup program. For instructions on how to uninstall them, refer to the following section.
  P.111 “Uninstalling Printer Drivers”
- To perform uninstallation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software. However, if you have logged onto Windows Vista/Windows 7/Windows Server 2008 with a user account other than “Administrator”, entering an administrator password upon display of the [User Account Control] dialog box enables you to perform the uninstallation by temporarily changing the user account.

■ Windows Vista / Windows 7 / Windows Server 2008

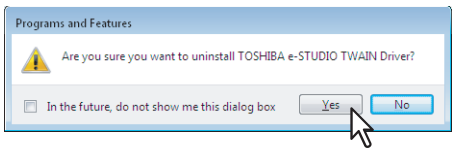
1 Click the start button, select [Control Panel] and click [Uninstall a program].



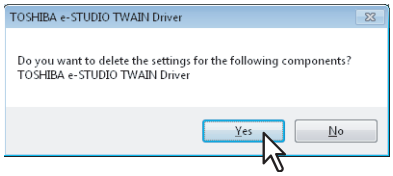
2 From the list, select the software you want to remove and click [Uninstall].



3 Click [Yes].



4 **Click [Yes] to delete the setting files.**



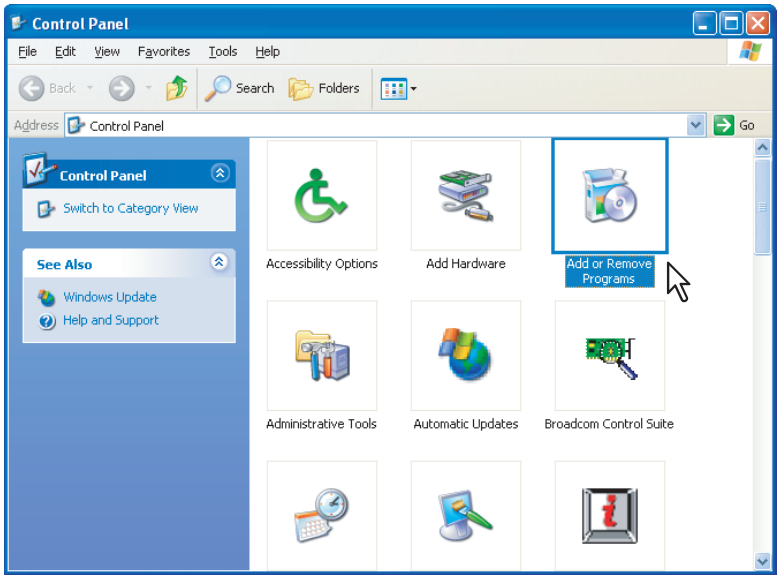
Deleting files starts.

Note

If you want to re-install the client software later, click [No] to remain the setting files. You can restore the data and settings when you re-install the client software.

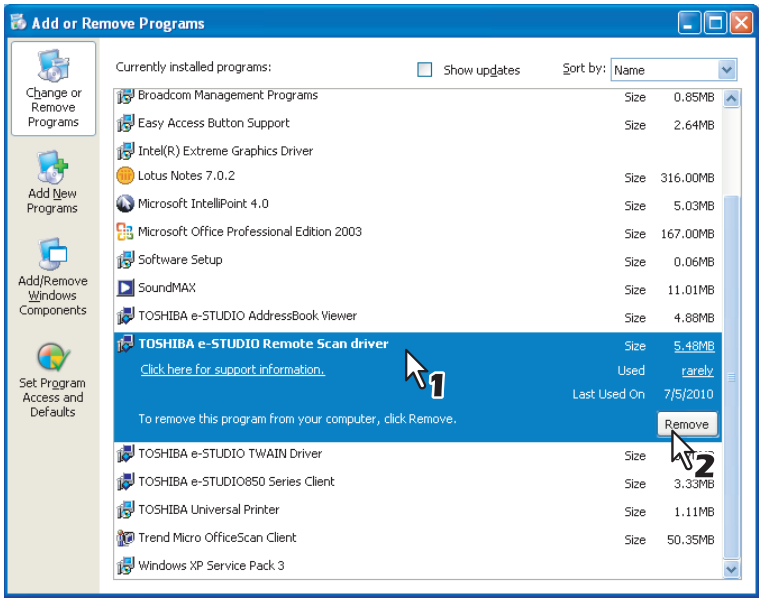
■ Windows XP / Windows Server 2003

1 **Click the start button, select [Control Panel] and double-click [Add or Remove Programs].**

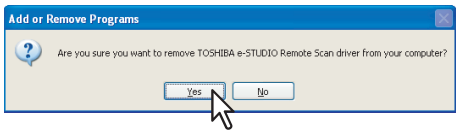


The Add or Remove Programs dialog box appears.

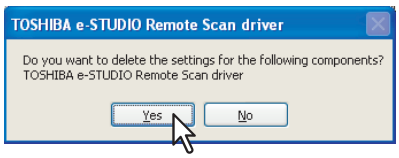
2 **From the list, select the software you want to remove and click [Remove].**



3 **Click [Yes].**



4 **Click [Yes] to delete the setting files.**



Deleting files starts.

Note

If you want to re-install the client software later, click [No] to remain the setting files. You can restore the data and settings when you re-install the client software.

Repairing Client Software

When the client software will not work correctly, you can repair the client software.
The following describes an installation on Windows Vista. The procedure is the same when other versions of Windows are used.

Notes

- The printer drivers, N/W-Fax driver, and WIA driver cannot be repaired by the setup program. To repair them, uninstall them and install again.
- Do not perform repairing the client software on Windows XP in which the Service Pack 2 is not installed. In that case, uninstall the client software and then install again to repair the client software.
- To repair the client software, you must log onto Windows with the “Administrator” account. However, if you have logged onto Windows Vista/Windows 7/Windows Server 2008 with a user account other than “Administrator”, entering an administrator password upon display of the [User Account Control] dialog box enables you to perform the operation by temporarily changing the user account.

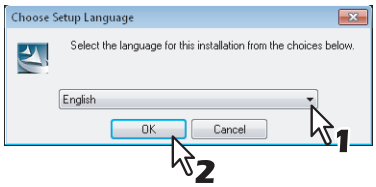
1 Insert the Client Utilities CD-ROM into the CD-ROM drive.

When inserting the Client Utilities CD-ROM, the Auto Play menu appears. Click [Open folder to view files] to open the software folder.

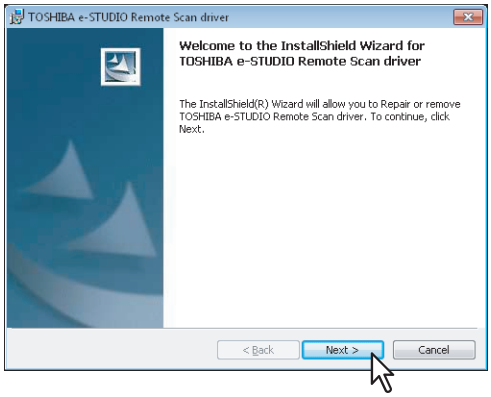
2 Open the software folder that you want to repair and double click the [setup.exe] icon.

- To repair TWAIN Driver, locate “[Client Utilities CD-ROM]:\Client\TWAIN”.
- To repair File Downloader, locate “[Client Utilities CD-ROM]:\Client\FD”.
- To repair Remote Scan Diver, locate “[Client Utilities CD-ROM]:\Client\RS”.
- To repair AddressBook Viewer, locate “[Client Utilities CD-ROM]:\Client\ADRBK\32”.
- To repair AddressBook Viewer (for Windows 64-bit edition OSs), locate “[Client Utilities CD-ROM]:\Client\ADRBK\64”.

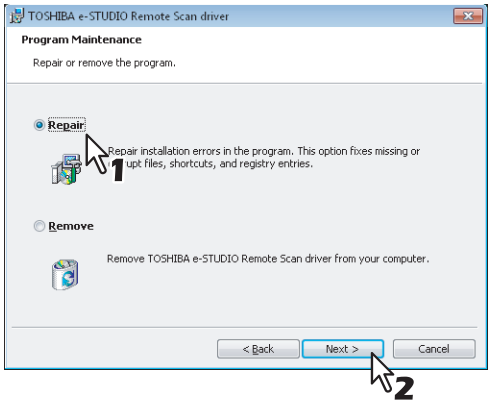
3 Select the language and click [OK].



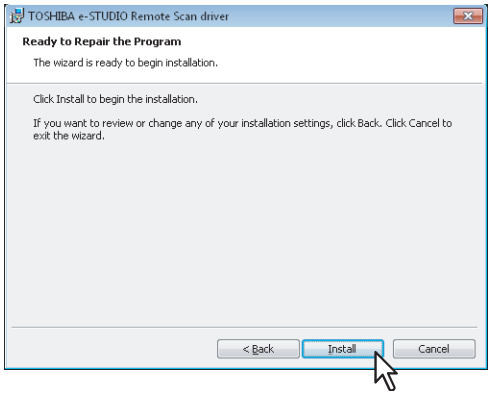
4 Click [Next].



5 Select [Repair] and click [Next].

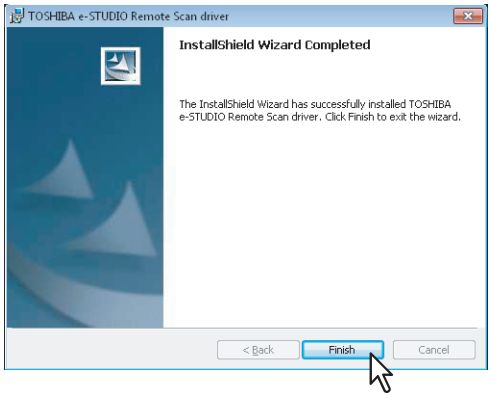


6 Click [Install].



Repairing files starts.

7 Click [Finish] to close the wizard.



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MULTIFUNCTIONAL DIGITAL SYSTEMS

Software Installation Guide

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